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RONDEAU BAY WATERSHED

DATA COLLECTION SUMMARY

1985



SOUTHWESTERN REGION

MINISTRY OF THE ENVIRONMENT



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RONDEAU BAY WATERSHED
DATA COLLECTION SUMMARY
1985

Water Resources Assessment Unit
Technical Support
Southwestern Region

Field Work - 1985

Report - May 1987

ISBN-0-7729-2462-7

Gift: Ministry of the Environment

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INTRODUCTION

This report presents and summarizes the data collected for the Rondeau Bay study in 1985 by the Southwestern Region of the Ministry of the Environment. The following map "Rondeau Bay and Tributary Sampling Sites 1985" displays all the sampling locations for 1985. This was the third year of a four year program involved in monitoring water quality changes in the Bay. This data will serve to evaluate the impact of improved agricultural practices within the drainage basin.

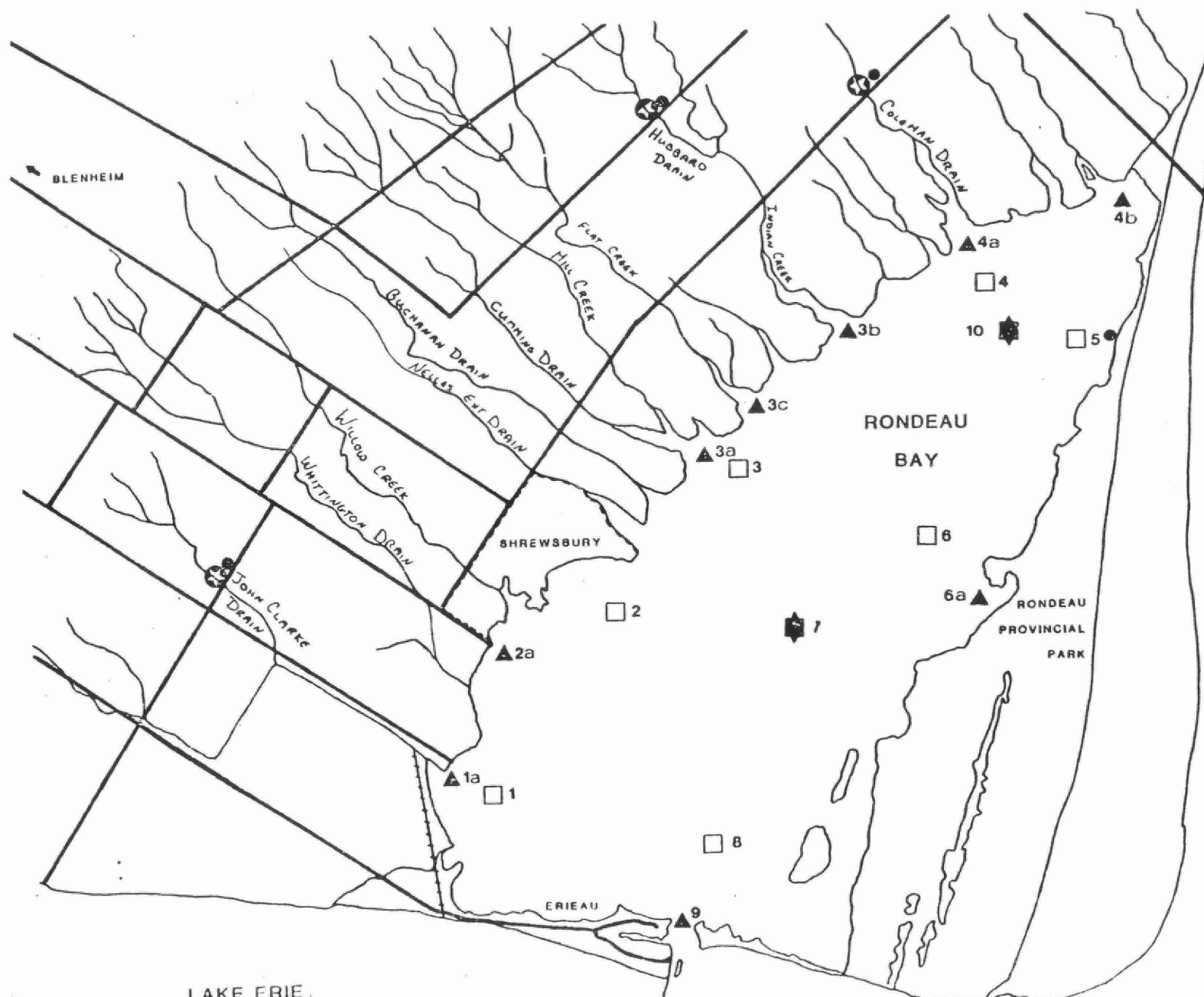
RONDEAU BAY AND TRIBUTARY SAMPLING SITES 1985

LEGEND

-  Tributary Sampling for Chemical Analyses
-  Tributary Mouth Sampling
-  Rondeau Bay Sampling Sites - Chemical and Secchi Disc Reading
-  Sampling Sites for Chlorophyll and Phytoplankton Analyses
-  Water Level Monitoring



SCALE 1 MILE



LAKE ERIE

SUMMARY

The data presented in this report indicates a trend to improvement in water quality conditions during the summer period in Rondeau Bay during 1985 as compared to water quality conditions recorded in 1984 and 1983.

To support this view, a wider distribution of Vallisneria sp throughout the Bay was visually documented during 1985. Secchi disc measurements at open bay stations also indicated a general trend of moderately improved water clarity. Water clarity conditions were more stable during 1985 as there was a reduced frequency of severe runoff events. Suspended solids levels were lower at all open bay sample sites during 1985 as compared to 1984 results. Turbidity measurement results demonstrated the same trend. Total phosphorus and soluble phosphorus levels were, on average, reduced from 1984 levels. The increase in aquatic plant growth may account for some of the reduced levels of phosphorus.

Although sample collection frequency was reduced during the summer of 1985, we feel that the data indicated the existing conditions. Sampling frequency was reduced during 1985 as there were very few major runoff events to cause major shifts in water quality within the Bay.

Aquatic Plant Growth in Rondeau Bay - 1985

Introduction

Aquatic plant growths in Rondeau Bay during 1985 were hampered by numerous wind storms associated with record high water levels. Many shoreline areas in the Bay were physically damaged and flooded during April and May by wind and wave action, especially the south and north shores. However, rooted aquatic plant growth became well established in many areas of the Bay.

Growths in open water areas of the Bay appeared to be oriented to the 2 m depth contour. This observation suggests that physical damage from wave action in the areas of unprotected shoreline may be limiting growth in the shallow or near-shore zones.

Summary of Rooted Aquatic Plant Growth Observations

Rooted aquatic plant growths were visually documented during the May to October time period.

In general, the Creek mouth areas along the northwest shore produced the first plant growths, with yellow water lillies being present at the waters surface on May 7, 1985. These same areas were the first to produce substantial growths of Myriophyllum sp. and Potamogeton pectinatus. These growths occurred during early June. Growths of these plants were observed during mid June in open waters of the Bay.

The southwest and southeast corners of the Bay have historically produced luxuriant plant growths early in the season. These areas were the last areas to produce luxuriant macrophyte growths during the 1985 season. During 1985 the most prevalent species observed growing in Rondeau

Bay was Vallisneria sp. Myriophyllum sp., Potamogeton pectinatus and Heteranthera dubia were much less prevalent, but common. In general, Myriophyllum sp. was the first plant to produce extensive growths to surface in open water areas of the Bay (early June) followed closely by Potamogeton pectinatus in mid June. The Vallisneria sp. growths appeared near and at the surface around July 1, and Heteranthera dubia (Water Star grass) started to become prevalent in the southeast and southwest corners of the Bay near the first part of August 1985.

Aquatic Plant Growth Observations, 1985

Vallisneria sp. (Wild Celery)

June 17, 1985 - Vallisneria sp. was growing at the mouth of Indian Creek (Station 3b) in 0.5 to 1 m depth. Growths were also present between stations 2 and 3 at the 1.5 - 2.0 m depth contour.

June 27, 1985 - Luxuriant growths of Vallisneria sp. were occurring between Stations 2 and 3 at the 2 m depth contour. Leaf lengths were in excess of 1 m long. New beds of Vallisneria sp. were observed at Station 6, in approximately 2 m of water. Leaf lengths ranged between 20 and 30 cm long. Growths were also present at most creek mouth areas, 1a, 2a, 3a, b, c, 4a and 6a.

July 1, 1985 - Vallisneria sp. growths were very extensive between Stations 2 and 3 and were evident at Station 6. New areas of growth began to appear at Stations 1 and 8.

July 15, 1985 - Vallisneria sp. was growing abundantly throughout the pre-mentioned areas. Growths were healthy and reaching up to the surface. The heaviest areas of growth were documented between Stations 2 and 3 in the vicinity of Station 6 at the 2 m depth contour.

July 30, 1985 - Vallisneria sp. was actively growing at Stations 2, 3 and 6 in large beds. Growths also present at Stations 1, 1a, 2a, 3a, b, c, 4a, 6a, and 8.

August 13, 1985 - Vallisneria sp. growths were mature with fruiting bodies up to the surface, especially at Stations 2 and 3 and in the vicinity of Station 6.

September 3, 1985 - Vallisneria sp. growths up to the surface with fruiting bodies at all pre-mentioned areas. Growths becoming denser at Stations 1 and 8, not producing fruiting bodies up to the surface.

September 23, 1985 - Vallisneria sp. growths were in decline with the exception of the southeast and southwest corners of the Bay (Stations 1 and 8) where growths appeared healthy and actively growing. No fruiting bodies were present. These conditions were maintained until October 16, 1985 at which time observations ceased.

Myriophyllum sp (Milfoil)

May 27, 1985. Milfoil was growing actively at Creek mouths at the 1 m depth contour. Heavy growths were present at Station 3a, but growths were also common at Stations 3b, c and 4a and b.

June 17, 1985. Growths of Milfoil were appearing in open water areas between Stations 2 and 3 in the 1 to 1.5 m depth contour. The growths were sporadic and numerous clumps appeared within Vallisneria sp. beds.

June 27, 1985. Milfoil was growing actively in all the pre-mentioned areas. A large new bed growing up to the surface was observed in the vicinity of Station 6 at the 2 m depth contour. This growth area was established to be approximately 200 m long by 50 m wide.

July 15, 1985. Milfoil was growing up to the surface and very abundant in the 1 to 2 m depth contour at Stations 3a, b and 4a, b. Growths at Stations 2, 3 and 6 appeared to be declining.

July 30, 1985. Growths of Milfoil were in general decline, except at Station 4b where growths were increasing away from the Creek mouth out into the open Bay.

August 13, 1985. Milfoil growths were in decline throughout Rondeau Bay. Numerous stocks were observed floating in the Bay. Growths appeared very unhealthy.

September 3, 1985. Milfoil growths were in further decline. Appearance of beds throughout the Bay at this time were sparse.

September 23, 1985. Milfoil growths were very sparse and these growths were in decline with the exception of a new luxuriant growth site in the vicinity of Station 1 in the 1.5 to 2 m depth range.

October 16, 1985. Milfoil was observed to be present only at Stations 1 and 8 where plant growths appeared to be still active.

Potamogeton pectinatus (Sago Pondweed)

May 27, 1985. This plant appeared at Creek mouth areas in the 0.5 to 1 m depth contour. At Station 3c growth was particularly heavy. Growths were also present at Stations 1a, 3b, c, 4a and b.

June 17, 1985. Luxuriant growths of Potamogetan pectinatus appeared at Stations 3a, 3b, 3c and were actively growing. Growths of this plant were also

observed in a long narrow band along an old beach ridge on the inside of Station 8 near the Rondeau marshes. This growth area was approximately 200 m long by 5 m wide. Growths were to the surface with fruiting bodies present. Growths also were present with fruiting bodies at Station 6a. Patchy growths of Potamogetan pectinatus were also evident between Stations 2 and 3.

June 27, 1985. Growths of Potamogetan pectinatus were obvious at Stations 1a, 3a, b and c, 4a and b, with mature fruiting bodies at the surface. New growth areas were appearing along the cattail marsh inside Station 7 in the 2 m depth contour.

July 15, 1985. Potamogetan pectinatus was observed to be in decline in all the pre-mentioned growth areas.

July 30, 1985. Potamogetan pectinatus was very sparse, almost eliminated from the Bay.

Heteranthera dubia (Water Star Grass).

This plant occurs only in luxuriant growth conditions in two areas of the Bay. The heaviest concentrations of growth occurred in a protected area behind the submerged beach ridge inside Station 8 (southeast corner of the Bay). The other main growth area is in the vicinity of Station 1, in the southwest corner of the Bay. Growths of this plant did not appear until late July in these areas, however, abundant growths occurred throughout August. Luxuriant growths were still present at Stations 8 and 1 on October 16, 1985, the last day of observations.

Rondeau Bay

Secchi Disc Measurements - 1985

Station	Readings	Average	Maximum	Minimum
1-	11	0.66	1.0	0.25
2-	11	0.66	1.0	0.25
3-	11	0.79	1.1	0.25
4-	11	0.57	0.9	0.16
5-	11	0.65	1.0	0.30
6-	11	0.70	1.2	0.25
7-	11	0.62	1.1	0.25
8-	11	0.67	1.1	0.25
9-	11	0.85	1.7	0.25
10-	11	0.63	1.1	0.25
1A	9	0.29	0.5	0.15
2A	6	0.23	0.3	0.15
3A	9	0.41	0.6	0.20
4A	9	0.26	0.45	0.20
6A	10	0.84	1.7	0.20
3B	9	0.34	0.6	0.20
4B	7	0.36	0.7	0.20
3C	9	0.34	0.5	0.25

All readings in meters

Note: Sampling dates and secchi disc measurements are tabulated in the table "Routine Water Quality Monitoring Data for Rondeau Bay 1985".

Chlorophyll and Secchi Disc Measurements Collected from
Stations 7 and 10 in Rondeau Bay

Station Number	Date	Secchi Disc (m)	Temp (°C)	Time	Total Chlorophyll A	Corrected Chlorophyll A	Total Chlorophyll B
7	Feb. 20	clear	3.2	12:45	1.3	0.7	1.1
10		clear	1.0	11:35	1.4	1.1	1.2
7	April 4	0.25	9.0	10:35	11.3	-	2.4
10		0.25	9.0	11:05	7.8	-	2.1
7	May 7	0.50	13.0	12:50	4.3	-	0.8
10		0.50	14.5	1:15	6.1	-	1.2
7	May 27	0.7	20.0	3:00	3.7	-	1.0
10		0.6	20.0	3:20	3.6	-	1.1
7	June 17	0.6	17.0	1:45	8.8	5.6	1.7
10		0.5	19.0	2:15	12.9	9.0	24.
7	June 27	1.1	19.0	10:17	5.9	3.8	1.1
10		1.1	21.0	11:40	4.5	2.7	1.2
7	July 15	0.7	24.0	11:55	8.7	6.8	2.0
10		0.5	24.0	1:01	11.1	9.0	2.1
7	July 30	0.95	22.0	10:06	6.3	4.8	1.0
10		0.8	23.0	10:33	7.0	4.8	1.3
7	Aug. 13	0.95	22.0	10:06	10.0	7.6	1.6
10		0.8	23.0	10:33	8.1	6.0	1.2
7	Sept. 3	0.85	22.0	11:08	10.9	8.4	1.2
10		0.65	23.0	11:33	10.5	8.5	1.3
7	Sept. 23	0.75	20.0	10:53	4.8	2.0	0.6
10		0.9	20.0	11:21	6.3	1.3	0.6
7	Oct. 16	0.5	8.0	11:50	7.0	4.6	1.5
10		0.4	12.5	12:20	7.7	5.5	1.1

	<u>Station 7</u>	<u>Station 10</u>
Average Secchi Disc	0.71 m	0.64 m
Maximum Secchi Disc	1.1 m	1.1 m
Average Total Chlorophyll A	6.92 (ug/L)	7.25 (ug/L)
Average Corrected Chlorophyll A	4.92 (ug/L)	5.3 (ug/L)
Average Total Chlorophyll B	1.33 (ug/L)	1.4 (ug/L)

Rondeau Bay - 1985
Suspended Solids

<u>Station</u>	<u>Readings</u>	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>
1 Top	11	13.5	20.7	6.7
A	9	33.4	107.0	11.9
2 Top	11	13.7	40.2	4.4
A	6	27.8	49.6	19.4
3 Top	12	11.3	45.5	1.5
A	9	27.2	86.2	7.4
B	9	28.5	70.1	10.2
C	9	31.2	69.7	9.0
4 Top	12	13.7	24.3	1.9
A	9	35.6	74.6	17.4
B	7	39.7	101.3	5.7
5 Top	12	10.9	20.6	0.7
6 Top	11	10.7	16.6	6.2
A	10	16.5	70.4	3.6
7 Top	12	10.8	17.7	0.9
Bottom	11	23.9	103.3	10.2
8 Top	11	13.1	24.6	6.3
9 Top	11	10.4	18.4	5.2
Bottom	11	11.9	23.9	7.2
10 Top	12	12.9	20.6	1.9
Bottom	11	20.2	56.4	7.4

All results in mg/l
All samples surface grabs
except where noted.

Rondeau Bay - 1985
Turbidity

<u>Station</u>	<u>Readings</u>	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>
1 Top	11	18.8	59.0	10.8
A	9	40.5	114.0	14.8
2 Top	11	18.9	44.0	8.8
A	6	49.0	85.0	30.0
3 Top	12	15.0	42.0	5.0
A	9	28.5	80.0	16.4
B	9	34.7	77.0	16.9
C	9	32.1	64.0	17.5
4 Top	12	18.5	40.0	6.7
A	9	44.2	68.0	25.0
B	7	40.1	76.0	11.8
5 Top	12	15.0	37.0	5.8
6 Top	11	17.2	42.0	8.2
A	10	13.4	47.0	3.6
7 Top	12	16.2	48.0	5.1
Bottom	11	26.2	83.0	9.2
8 Top	11	18.8	57.0	7.9
9 Top	11	16.3	46.0	6.7
Bottom	11	14.5	38.0	6.8
10 Top	12	18.5	38.0	6.9
Bottom	11	21.2	41.0	9.3

All readings in Formazin Turbidity Units (FTU)

Rondeau Bay - 1985
Total Phosphorus

<u>Station</u>	<u>Readings</u>	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>
1 Top	11	0.041	0.081	0.028
A	9	0.122	0.30	0.051
2 Top	11	0.054	0.156	0.025
A	6	0.115	0.196	0.066
3 Top	12	0.034	0.060	0.012
A	9	0.071	0.125	0.024
B	9	0.073	0.125	0.041
C	9	0.079	0.142	0.045
4 Top	12	0.044	0.064	0.027
A	9	0.117	0.224	0.061
B	7	0.094	0.170	0.038
5 Top	12	0.035	0.052	0.019
6 Top	11	0.036	0.059	0.022
A	10	0.035	0.080	0.018
7 Top	12	0.036	0.070	0.018
Bottom	11	0.052	0.125	0.029
8 Top	11	0.037	0.076	0.024
9 Top	11	0.030	0.055	0.019
Bottom	11	0.034	0.056	0.021
10 Top	12	0.040	0.055	0.022
Bottom	11	0.048	0.070	0.030

All results in mg/L

Rondeau Bay - 1985
Soluble Phosphorus

<u>Station</u>	<u>Readings</u>	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>
1 Top	11	0.006	0.023	0.002
A	9	0.023	0.105	0.006
2 Top	11	0.006	0.123	0.002
A	6	0.021	0.036	0.006
3 Top	12	0.006	0.021	0.001
A	9	0.009	0.021	0.002
B	9	0.007	0.012	0.003
C	9	0.008	0.016	0.003
4 Top	12	0.006	0.023	0.001
A	9	0.025	0.131	0.004
B	7	0.024	0.117	0.004
5 Top	12	0.005	0.020	0.001
6 Top	11	0.006	0.026	0.001
A	10	0.003	0.006	0.001
7 Top	12	0.005	0.025	0.001
Bottom	11	0.006	0.028	0.001
8 Top	11	0.006	0.032	0.001
9 Top	11	0.004	0.023	0.001
Bottom	11	0.005	0.021	0.001
10 Top	12	0.006	0.028	0.001
Bottom	11	0.006	0.019	0.001

All results in mg/L

Summary of Other Chemical Parameters
Collected From Rondeau Bay - 1985

Station #		Nitrogen				pH	Cond.	Cl.	Fe
		F.A.	Kjel.	Nitrite	Nitrate				
1 Top	Maximum	0.085	0.63	0.017	1.12	8.48	321	14.5	1.94
	Minimum	0.005	0.38	0.001	0.01	8.29	274	12.5	0.04
	Average	0.021	0.47	0.007	0.22	8.39	293	13.9	0.72
1 A	Maximum	0.19	1.60	0.039	0.52	8.44	425	23.5	5.80
	Minimum	0.005	0.48	0.001	0.01	7.68	285	13.0	0.64
	Average	0.049	0.81	0.012	0.12	8.18	320	16.4	2.04
2 Top	Maximum	0.08	0.71	0.017	1.22	8.53	329	15.0	1.60
	Minimum	0.005	0.39	0.002	0.01	8.27	282	12.5	0.33
	Average	0.019	0.48	0.006	0.24	8.43	295	14.3	0.74
2 A	Maximum	0.185	1.08	0.026	0.42	8.25	650	40.0	4.45
	Minimum	0.015	0.54	0.004	0.01	7.79	290	15.0	1.40
	Average	0.055	0.77	0.016	0.14	8.08	401	21.8	2.43
3 Top	Maximum	0.09	0.57	0.017	1.15	8.53	340	17.5	1.48
	Minimum	0.005	0.15	0.002	0.01	8.16	273	13.0	0.16
	Average	0.020	0.42	0.007	0.26	8.40	299	14.5	0.58
3 A	Maximum	0.095	0.84	0.012	0.66	8.42	326	16.0	3.90
	Minimum	0.005	0.51	0.002	0.01	8.06	285	13.0	0.70
	Average	0.028	0.63	0.006	0.11	8.31	303	14.6	1.41
3 B	Maximum	0.125	0.80	0.012	0.62	8.52	320	15.5	3.75
	Minimum	0.005	0.48	0.002	0.01	8.15	288	13.0	0.53
	Average	0.029	0.62	0.005	0.12	8.33	303	14.5	1.55
3 C	Maximum	0.135	1.30	0.026	0.69	8.40	391	15.5	3.10
	Minimum	0.005	0.52	0.002	0.01	8.25	280	13.0	0.82
	Average	0.031	0.69	0.009	0.12	8.33	310	14.5	1.58
4	Maximum	0.07	0.58	0.017	1.21	8.55	366	18.5	1.40
	Minimum	0.005	0.42	0.001	0.01	8.05	277	13.0	0.32
	Average	0.017	0.50	0.006	0.28	8.37	302	14.6	0.79
4 A	Maximum	0.15	1.00	0.02	0.68	8.39	391	15.5	3.50
	Minimum	0.005	0.58	0.003	0.01	7.96	300	13.0	1.03
	Average	0.049	0.71	0.010	0.14	8.21	320	14.3	2.14
4 B	Maximum	0.20	1.00	0.01	0.21	8.40	307	15.5	4.20
	Minimum	0.005	0.52	0.003	0.01	8.21	278	13.5	0.56
	Average	0.054	0.64	0.006	0.06	8.32	296	14.4	2.07
5	Maximum	0.100	0.56	0.014	1.18	8.49	342	16.5	1.34
	Minimum	0.005	0.38	0.002	0.01	8.03	285	13.0	0.26
	Average	0.026	0.48	0.005	0.29	8.36	302	14.2	0.61

Summary of Other Chemical Parameters
Collected From Rondeau Bay - 1985

Station #		Nitrogen				pH	Cond.	Cl.	Fe
		F.A.	Kjel	Nitrate	Nitrate				
6 Top	Maximum	0.20	0.15	0.015	1.00	8.56	324	15.0	1.48
	Minimum	0.005	0.39	0.001	0.01	8.18	273	13.0	0.21
	Average	0.036	0.46	0.005	0.20	8.40	297	14.0	0.65
6 A	Maximum	0.055	1.65	0.007	0.47	8.49	323	15.0	1.80
	Minimum	0.005	0.41	0.001	0.01	8.05	277	13.0	0.13
	Average	0.018	0.64	0.004	0.11	8.25	296	14.0	0.55
7 Top	Maximum	0.20	0.56	0.016	1.1	8.57	345	18.0	1.70
	Minimum	0.001	0.32	0.002	0.01	8.09	273	13.0	0.17
	Average	0.036	0.46	0.006	0.25	8.37	299	14.4	0.66
7 Bottom	Maximum	0.35	0.70	0.016	1.14	8.56	316	15.0	3.60
	Minimum	0.005	0.44	0.002	0.01	8.18	277	13.0	0.43
	Average	0.052	0.54	0.006	0.21	8.37	294	14.0	1.09
8 Top	Maximum	0.06	0.54	0.016	1.2	8.49	309	15.0	1.88
	Minimum	0.005	0.37	0.002	0.01	8.14	264	12.0	0.28
	Average	0.021	0.43	0.007	0.23	8.36	290	14.0	0.69
9 A	Maximum	0.10	0.71	0.012	0.87	8.48	311	15.0	1.32
	Minimum	0.005	0.33	0.006	0.02	8.10	262	12.0	0.21
	Average	0.028	0.44	0.007	0.24	8.32	286	13.8	0.50
9 Bottom	Maximum	0.30	0.55	0.011	0.77	8.48	317	12.5	1.24
	Minimum	0.005	0.37	0.004	0.02	7.95	263	12.5	0.28
	Average	0.052	0.48	0.007	0.24	8.23	285	13.7	0.55
10 Top	Maximum	0.20	0.62	0.016	1.09	8.57	343	17.5	1.36
	Minimum	0.005	0.38	0.002	0.01	7.99	284	13.0	0.27
	Average	0.036	0.49	0.006	0.29	8.34	302	14.3	0.75
10 Bottom	Maximum	0.075	0.64	0.015	1.11	8.55	328	15.0	1.75
	Minimum	0.005	0.43	0.002	0.01	8.15	278	13.5	0.33
	Average	0.022	0.54	0.006	0.21	8.37	296	14.2	0.97

NOTE: All results in mg/L other than Conductivity (Micromhms/cm (25°C) and pH.

Coleman Drain

Station 16-0051-001-02

Collection of water quality and quantity data was not successful during 1985. High water levels and severe erosion near the monitoring site rendered this specific site unusable.

The flow measuring equipment and the sample site location has been relocated immediately upstream from the existing site. All 1986 data will be collected at the new site.

1985 LOADING CALCULATIONS - METHODOLOGY

SUSPENDED SOLIDS

DRAIN		RANGE (CMS)	MEAN STRATUM LOADINGS Kg/DAY	MEAN DAILY LOADINGS Kg/DAY
JOHN CLARK DR.				
RANGE A	STRATA 1	1.249-3.2	199500	
	STRATA 2	0.291-1.248	9423	
	STRATA 3	0 -.291	682	11830
RANGE B	STRATA 1	0.178-2.0	77997	
	STRATA 2	0.076-0.177	3731	
	STRATA 3	0 -0.075	135.1	1845.3
RANGE C	STRATA 1	0.098-0.248	22891	
	STRATA 2	0.047-0.097	15451	
	STRATA 3	0 -0.046	480.7	1507.2
HUBBARD DRAIN				
RANGE A	STRATA 1	0 -0.053	35.3	35.3
RANGE B	STRATA 1	0.061-2.0	63.3	
	STRATA 2	0 -0.060	20037	3465.5

TOTAL PHOSPHORUS

		RANGE (CMS)	MEAN STRATUM LOADINGS Kg/day	MEAN DAILY LOADINGS Kg/day
JOHN CLARK DR.				
RANGE A	STRATA 1	1.098-3.2	205.3	
	STRATA 2	0.745-1.097	42.0	
	STRATA 3	0.291-0.744	14.0	
	STRATA 4	0 -0.290	2.1	24.1
RANGE B	STRATA 1	0.178-2.0	126.6	
	STRATA 2	0.076-0.177	7.4	
	STRATA 3	0 -0.075	0.3	3.1
RANGE C	STRATA 1	0.047-0.248	24.6	
	STRATA 2	0 -0.046	0.8	2.2
HUBBARD DRAIN				
RANGE A	STRATA 1	0 -0.053	0.1	0.1
RANGE B	STRATA 1	0.448-2.60	170.2	
	STRATA 2	0.195-0.447	24.6	
	STRATA 3	0 -0.194	0.6	5.5

1985 Seasonal Loadings

Susp. Solids

	<u>Range</u>	<u>Kg/day</u>	<u># days</u>	<u>Tonnes</u>	<u>Tonnes/day</u>
John Clark Dr.	A	11830	49	579.7	
	B	1845.3	145	267.6	
	C	1507.2	<u>51</u>	<u>76.9</u>	
			245	924.2	3.77
Hubbard Dr.	A	35.3	62	2.2	
	B	3465.5	<u>182</u>	<u>630.7</u>	
			244	632.9	<u>2.59</u>
				total	6.36
	Area		1645 acres		

Measured Load - 0.0039 Tonnes/Acre/day

Total Basin Area - 27050 Acres

Est. Av. Daily load to Bay 104.6 Tonnes/day

Assume 90 days no load to Bay in Winter

Est. Annual load to Bay 28765 Tonnes Susp. Solids

1985 Seasonal Loadings

Total Phosphorus

	<u>Range</u>	<u>Kg/day</u>	<u># days</u>	<u>Kg</u>	<u>Kg/day</u>
John Clark Dr.	A	24.1	49	1180.9	
	B	3.1	145	449.5	
	C	2.2	<u>51</u>	<u>112.2</u>	
			245	1742.6	7.11
Hubbard Dr.	A	0.1	62	6.2	
	B	5.5	<u>182</u>	<u>1001.0</u>	
			244	1007.2	<u>4.13</u>
				Total	11.24
Area - 1645 Acres					

1985 Seasonal Loadings

Measured Load - 0.0068 Kg/Acre/day

Basin Area - 27050 Acres

Est. Av. Daily Load to Bay 184.8 kg/day

Assume 90 days no load - Winter

Est. Annual Load to Bay 50.8 Tonnes or 50827 Kg of total phosphorus.

Suspended Solids

Summary

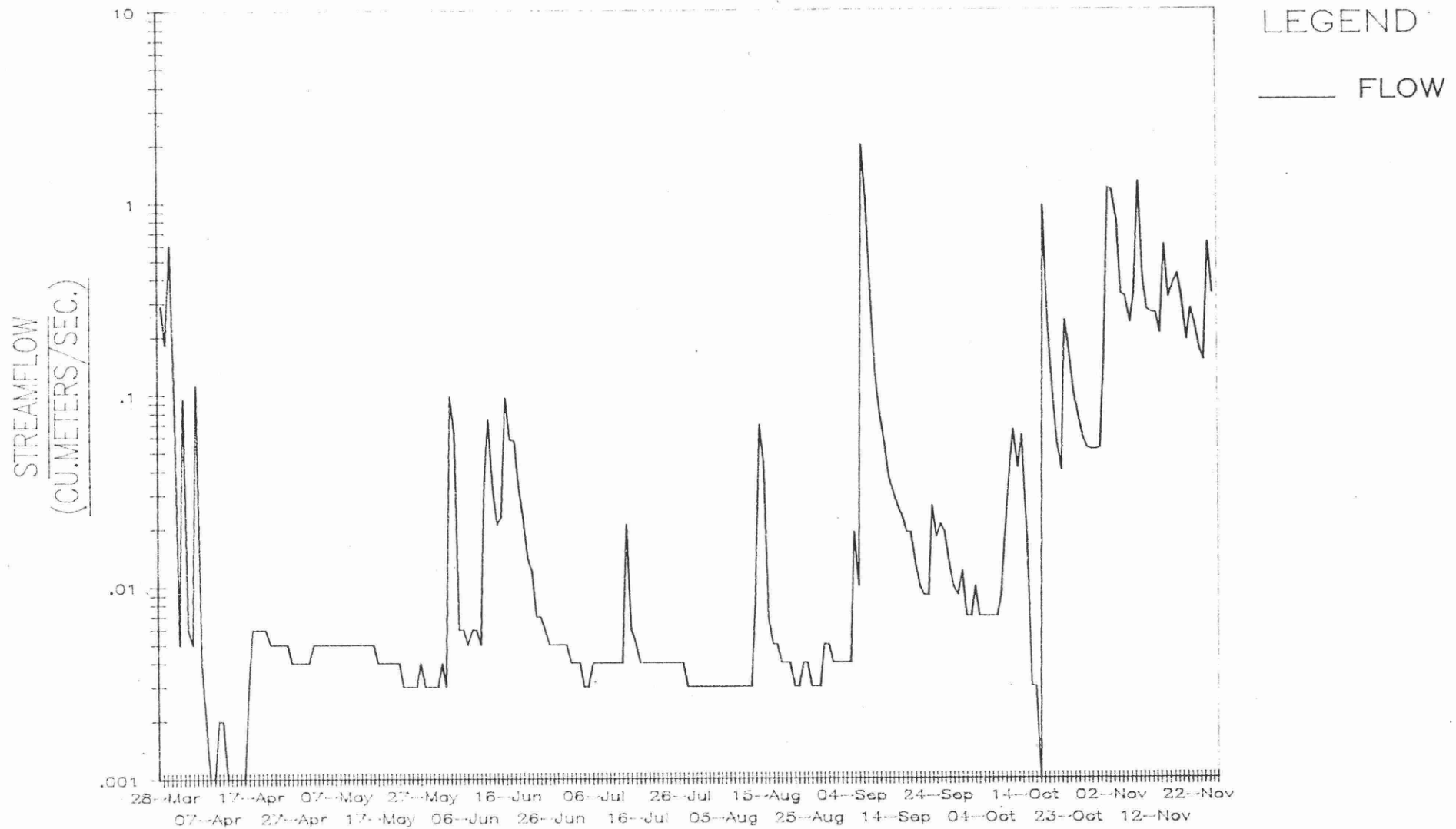
	<u>1983</u>	<u>1984</u>	<u>1985</u>
Est. Av. Daily Load to Bay Tonnes/day	186.6	40.1	104.6
Est. Annual Load to Bay Tonnes	51300	11028	28765

MEAN DAILY STREAMFLOWS FOR JOHN CLARK DR.-1985

DAY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
1		0.005	0.004	0.004	0.004	0.003	0.004	0.012	.052
2		0.095	0.005	0.003	0.004	0.003	0.004	0.007	.142
3		0.006	0.005	0.098	0.004	0.003	0.004	0.007	1.170
4		0.005	0.005	0.063	0.003	0.003	0.004	0.010	1.140
5		0.112	0.005	0.006	0.003	0.003	0.004	0.007	.791
6		0.004	0.005	0.006	0.004	0.003	0.019	0.007	.329
7		0.002	0.005	0.005	0.004	0.003	0.010	0.007	.319
8		0.001	0.005	0.006	0.004	0.003	2.000	0.007	.233
9		0	0.005	0.006	0.004	0.003	1.020	0.007	.331
10		0.002	0.005	0.005	0.004	0.003	0.297	0.009	1.270
11		0.002	0.005	0.034	0.004	0.003	0.126	0.020	.406
12		0	0.005	0.074	0.004	0.003	0.080	0.037	.273
13		0	0.005	0.031	0.004	0.003	0.055	0.065	.263
14		0	0.005	0.021	0.004	0.008	0.037	0.041	.261
15		0	0.005	0.023	0.021	0.069	0.031	0.061	.206
16		0	0.005	0.096	0.006	0.044	0.026	0.018	.596
17		0.003	0.004	0.058	0.005	0.007	0.023	0.003	.315
18		0.006	0.004	0.057	0.004	0.005	0.019	0.001	.376
19		0.006	0.004	0.033	0.004	0.005	0.019	0.957	.418
20		0.006	0.004	0.023	0.004	0.004	0.013	0.245	.316
21		0.006	0.004	0.014	0.004	0.004	0.010	0.102	.191
22		0.005	0.004	0.012	0.004	0.004	0.009	0.057	.276
23		0.005	0.003	0.007	0.004	0.003	0.009	0.040	.223
24		0.005	0.003	0.007	0.004	0.003	0.026	0.240	.173
25		0.005	0.003	0.006	0.004	0.004	0.018	0.165	.149
26		0.005	0.003	0.005	0.004	0.004	0.021	0.100	.613
27		0.004	0.004	0.005	0.004	0.003	0.019	0.078	.332
28	0.289	0.004	0.003	0.005	0.004	0.003	0.013	0.059	
29	0.184	0.004	0.003	0.005	0.003	0.003	0.010	0.052	
30	0.602	0.004	0.003	0.005	0.003	0.005	0.009	0.051	
31	0.090		0.003		0.003	0.005		0.051	

Note: All results are in cubic meters/sec.

RONDEAU BAY TRIB. LOADINGS MEAN DAILY STREAMFLOW JOHN CLARK DRAIN



1985

SAMPLE RESULTS _ JOHN CLARK DRAIN

DATE	TIME	SAMPLE TYPE	S.G.	STREAM FLOW	SUSP. SOLIDS	TOTAL PHOSPHORUS
28-MAR	1345	INT.	202	0.497	2314.8	4.55
28-MAR	1345	AUTO.	B1	0.497	2463.4	3.6
28-MAR	1400	AUTO.	B2	0.467	2302.0	3.62
28-MAR	1500	AUTO.	B3	0.389	1687.0	2.92
28-MAR	1600	AUTO.	B4	0.314	1466.0	2.6
28-MAR	1700	AUTO.	B5	0.265	1032.4	2
28-MAR	1800	AUTO.	B6	0.238	868.2	1.98
28-MAR	1900	AUTO.	B7	0.232	843.6	1.62
28-MAR	2000	AUTO.	B8	0.251	1058.6	1.92
28-MAR	2100	AUTO.	B9	0.297	864.2	1.52
28-MAR	2200	AUTO.	B10	0.275	697.6	1.78
28-MAR	2300	AUTO.	B11	0.251	1077.8	1.88
28-MAR	2400	AUTO.	B12	0.389	1415.8	2.05
29-MAR	100	AUTO.	B13	0.409	1699.2	2.6
29-MAR	200	AUTO.	B14	0.536	2017.2	2.8
29-MAR	300	AUTO.	B15	0.57	1577.2	2.05
29-MAR	400	AUTO.	B16	0.456	1261.0	1.75
29-MAR	500	AUTO.	B17	0.343	1208.6	1.54
29-MAR	600	AUTO.	B18	0.267	995.6	1.2
29-MAR	700	AUTO.	B19	0.219	902.4	2.82
29-MAR	800	AUTO.	B20	0.188	722.6	1.4
29-MAR	900	AUTO.	B21	0.164	676.2	2.22
29-MAR	1000	AUTO.	B22	0.141	645.8	0.82
29-MAR	1100	AUTO.	B23	0.121	599.8	1.5
29-MAR	1200	AUTO.	B24	0.108	552.4	0.78
29-MAR	1135	INT.	207	0.114	340.8	0.645
29-MAR	1800	AUTO.	B1	0.057	371.6	0.55
30-MAR	600	AUTO.	B2	0.019	158.2	0.51
30-MAR	1800	AUTO.	B3	0.006	64.6	0.324
31-MAR	600	AUTO.	B4	0.007	226.6	0.405
31-MAR	1800	AUTO.	B5	4.83	17170.2	14.6
01-APR	600	AUTO.	B6	3.40	10302.0	5.9
01-APR	1800	AUTO.	B7	0.03	2850.8	2.42
02-APR	600	AUTO.	B8	0.006	1138.1	1.62
02-APR	1800	AUTO.	B9	0.005	897.9	1.34
03-APR	600	AUTO.	B10	0.096	2125.2	3.3
03-APR	1800	AUTO.	B11	0.052	4224.4	4.52
04-APR	600	AUTO.	B12	0.006	990.6	1.28
04-APR	1800	AUTO.	B13	0.005	853.7	1.08
05-APR	600	AUTO.	B14	0.004	703.3	0.735
05-APR	1800	AUTO.	B15	0.003	668.9	0.905
06-APR	600	AUTO.	B16	0.133	5714.0	6.6
06-APR	1800	AUTO.	B17	0.017	2219.8	2.02
07-APR	600	AUTO.	B18	0.005	282.9	0.82
07-APR	1800	AUTO.	B19	0.003	819.8	1.42
08-APR	600	AUTO.	B20	0.003	410.3	0.59
08-APR	1800	AUTO.	B21	0.002	451.2	0.59

STATION - JOHN CLARK DRAIN						
DATE	TIME	SAMPLE TYPE	S.G.	STREAM FLOW	SUSP. SOLIDS	TOTAL PHOSPHORUS
23-APR	1230	INT.	39455	0.005	12.8	
23-APR	1230	GRAB	39455	0.005	13.3	0.016
27-MAY	1221	GRAB	39471	0.003	7.3	0.046
27-MAY	1221	INT.	39471	0.003	8.3	
05-JUN		AUTO.	A1	1.29	2855.2	6.8
05-JUN		AUTO.	A2	2.0	6152.0	9.6
05-JUN		AUTO.	A3	0.226	1810.8	3.2
05-JUN		AUTO.	A4	0.157	360.8	0.91
05-JUN		AUTO.	A5	0.117	803.1	1.14
13-JUN		AUTO.	A1	0.117	513.9	0.88
13-JUN		AUTO.	A2	0.143	649.3	0.945
13-JUN		AUTO.	A3	0.129	237.1	0.485
13-JUN		AUTO.	A4	0.123	147.8	0.36
17-JUN	1200	AUTO.	B1	0.164	197.9	0.336
17-JUN	1600	AUTO.	B2	0.213	2616.0	3.28
17-JUN	2000	AUTO.	B3	0.131	1075.8	1.72
24-JUN	1200	GRAB	39487	0.005	21.4	0.064
24-JUN	1200	INT.	39487	0.005	5.2	
22-JUN	1216	GRAB	39502	0.004	59.0	0.108
22-JUN	1216	INT.	39502	0.004	63.7	
17-JUL	1800	AUTO.	A1	0.005	41.5	
18-JUL	1000	AUTO.	A2	0.004	139.9	
19-JUL	200	AUTO.	A3	0.004	107.7	
19-JUL	1800	AUTO.	A4	0.004	65.3	
20-JUL	1000	AUTO.	A5	0.004	97.5	
21-JUL	200	AUTO.	A6	0.004	79.7	
21-JUL	1800	AUTO.	A7	0.004	77.7	
22-JUL	1000	AUTO.	A8	0.004	117.5	
23-JUL	200	AUTO.	A9	0.004	140.5	
23-JUL	1800	AUTO.	A10	0.004	117.6	
24-JUL	1000	AUTO.	A11	0.004	126.3	
25-JUL	200	AUTO.	A12	0.004	121.4	
25-JUL	1800	AUTO.	A13	0.004	104.8	
26-JUL	1000	AUTO.	A14	0.004	159.9	
27-JUL	200	AUTO.	A15	0.004	111.9	
27-JUL	1800	AUTO.	A16	0.004	97.9	
28-JUL	1000	AUTO.	A17	0.004	84.0	
29-JUL	200	AUTO.	A18	0.003	113.0	
29-JUL	1800	AUTO.	A19	0.003	167.2	
30-JUL	1000	AUTO.	A20	0.004	89.0	
31-JUL	200	AUTO.	A21	0.003	97.9	
31-JUL	1800	AUTO.	A22	0.003	117.8	
15-AUG	1125	INT.	211	0.052	37.4	0.104
15-AUG	1125	AUTO.	A1	0.052	344.3	0.550
15-AUG	1200	AUTO.	A2	0.060	47.9	0.204
15-AUG	1300	AUTO.	A3	0.063	34.4	0.187
15-AUG	1400	AUTO.	A4	0.064	30.2	0.107
15-AUG	1500	AUTO.	A5	0.067	21.9	0.27
15-AUG	1600	AUTO.	A6	0.078	24.3	0.074

STATION - JOHN CLARK DRAIN						
DATE	TIME	SAMPLE TYPE	S.G.	STREAM FLOW	SUSP. SOLIDS	TOTAL PHOSPHORUS
15-AUG	1700	AUTO.	A7	0.089	23.2	0.08
15-AUG	1800	AUTO.	A8	0.101	24.8	0.083
15-AUG	1900	AUTO.	A9	0.111	40.0	0.260
15-AUG	2000	AUTO.	A10	0.112	33.9	0.152
15-AUG	2100	AUTO.	A11	0.113	20.3	0.095
15-AUG	2200	AUTO.	A12	0.114	19.0	0.082
15-AUG	2300	AUTO.	A13	0.107	19.9	0.121
15-AUG	2400	AUTO.	A14	0.100	20.4	0.26
16-AUG	100	AUTO.	A15	0.093	16.0	0.129
16-AUG	200	AUTO.	A16	0.086	16.5	0.154
16-AUG	300	AUTO.	A17	0.079	25.1	0.111
16-AUG	400	AUTO.	A18	0.072	19.5	0.127
16-AUG	500	AUTO.	A19	0.066	23.6	0.21
16-AUG	600	AUTO.	A20	0.062	19.2	0.131
16-AUG	700	AUTO.	A21	0.057	22.6	0.151
16-AUG	800	AUTO.	A22	0.053	12.4	0.085
16-AUG	900	AUTO.	A23	0.048	13.7	0.096
16-AUG	1000	AUTO.	A24	0.043	17.7	0.09
26-AUG	1234	GRAB	39517	0.004	45.9	0.104
26-AUG	1234	INT.	39517	0.004	20.6	
08-SEP	400	AUTO.	B1	0.186	251.2	0.48
08-SEP	600	AUTO.	B2	0.248	2306.4	3.02
08-SEP	800	AUTO.	B3	0.588	2827.2	3.37
08-SEP	1000	AUTO.	B4	0.496	768.8	1.11
08-SEP	1200	AUTO.	B5	0.517	706.8	1.16
08-SEP	1400	AUTO.	B6	0.456	408.1	0.91
08-SEP	1600	AUTO.	B7	0.385	124.4	0.395
08-SEP	1800	AUTO.	B8	0.379	137.3	0.42
08-SEP	2000	AUTO.	B9	3	3692.2	3.6
08-SEP	2200	AUTO.	B10	3.2	2478.6	2.87
08-SEP	2400	AUTO.	B11	2.69	779.0	1.2
09-SEP	200	AUTO.	B12	1.89	278.3	0.7
09-SEP	400	AUTO.	B13	1.56	128.7	0.38
09-SEP	600	AUTO.	B14	1.32	79.0	0.32
09-SEP	800	AUTO.	B15	1.14	56.1	0.274
09-SEP	1000	AUTO.	B16	0.983	39.5	0.236
09-SEP	1200	AUTO.	B17	0.847	41.4	0.22
09-SEP	1400	AUTO.	B18	0.747	35.6	0.212
09-SEP	1600	AUTO.	B19	0.648	34.5	0.202
09-SEP	1800	AUTO.	B20	0.579	33.1	0.21
09-SEP	2000	AUTO.	B21	0.521	33.1	0.21
09-SEP	2200	AUTO.	B22	0.483	36.9	0.196
09-SEP	2400	AUTO.	B23	0.448	31.0	0.212
10-SEP	200	AUTO.	B24	0.422	27.1	0.172
24-SEP	1330	INT.	39534	0.032	47.1	0.114
24-SEP	1330	GRAB	39534	0.032	103.8	0.28
18-OCT	1100	AUTO.	B1	0	190.9	0.35
18-OCT	1130	AUTO.	B2	0	127.5	0.25
19-OCT	500	AUTO.	B1	0.988	4596.4	5.8

STATION - JOHN CLARK DRAIN						
DATE	TIME	SAMPLE TYPE	S.G.	STREAM FLOW	SUSP. SOLIDS	TOTAL PHOSPHORUS
19-OCT	600	AUTO.	B2	2.21	2790.4	3.05
19-OCT	700	AUTO.	B3	2.72	2578	2.95
19-OCT	800	AUTO.	B4	2.67	1848.4	2.5
19-OCT	900	AUTO.	B5	2.18	1274.4	1.95
19-OCT	1000	AUTO.	B6	1.76	770.8	1.48
19-OCT	1100	AUTO.	B7	1.44	484.1	1.06
19-OCT	1200	AUTO.	B8	1.22	346.4	0.84
19-OCT	1300	AUTO.	B9	1.04	278.2	0.72
19-OCT	1400	AUTO.	B10	0.934	231.1	0.64
19-OCT	1500	AUTO.	B11	0.839	209.5	0.54
19-OCT	1600	AUTO.	B12	0.768	188.7	0.49
19-OCT	1700	AUTO.	B13	0.697	178.4	0.44
19-OCT	1800	AUTO.	B14	0.632	169.5	0.44
19-OCT	1900	AUTO.	B15	0.584	157.8	0.44
19-OCT	2000	AUTO.	B16	0.54	147.6	0.38
19-OCT	2100	AUTO.	B17	0.503	155.1	0.36
19-OCT	2200	AUTO.	B18	0.466	150.4	0.335
19-OCT	2300	AUTO.	B19	0.429	143	0.4
19-OCT	2400	AUTO.	B20	0.394	105.7	0.39
20-OCT	100	AUTO.	B21	0.377	91.6	0.355
20-OCT	200	AUTO.	B22	0.359	86.3	0.345
20-OCT	300	AUTO.	B23	0.342	85.9	0.33
20-OCT	400	AUTO.	B24	0.324	91.6	0.325
25-OCT	1130	AUTO.	C1	0.159	75	0.162
25-OCT	1230	AUTO.	C2	0.155	38.7	0.138
25-OCT	1330	AUTO.	C3	0.152	45.2	0.144
25-OCT	1430	AUTO.	C4	0.149	46.4	0.162
25-OCT	1530	AUTO.	C5	0.145	58.8	0.156
25-OCT	1630	AUTO.	C6	0.142	50.8	0.148
25-OCT	1730	AUTO.	C7	0.138	46.6	0.136
25-OCT	1830	AUTO.	C8	0.134	57.4	0.154
25-OCT	1930	AUTO.	C9	0.130	74.3	0.172
25-OCT	2030	AUTO.	C10	0.127	79.6	0.164
25-OCT	2130	AUTO.	C11	0.123	74.4	0.16
25-OCT	2230	AUTO.	C12	0.120	70.5	0.16
25-OCT	2330	AUTO.	C13	0.118	64.9	0.156
26-OCT	30	AUTO.	C14	0.117	74	0.156
26-OCT	130	AUTO.	C15	0.115	59.1	0.14
26-OCT	230	AUTO.	C16	0.113	43	0.114
28-OCT		INT.	39551	0.058	70.7	
28-OCT		GRAB	39551	0.058	61.1	0.162
01-NOV	1345	AUTO.	E1	0.052	447.4	0.84
01-NOV	1545	AUTO.	E2	0.051	431.6	0.79
01-NOV	1745	AUTO.	E3	0.051	249.8	0.375
01-NOV	1945	AUTO.	E4	0.051	219.6	0.165
01-NOV	2145	AUTO.	E5	0.051	133.4	0.355
01-NOV	2345	AUTO.	E6	0.051	175	0.36
02-NOV	145	AUTO.	E7	0.051	153.3	0.32
02-NOV	345	AUTO.	E8	0.051	216.4	0.37

STATION - JOHN CLARK DRAIN						
DATE	TIME	SAMPLE TYPE	S.G.	STREAM FLOW	SUSP. SOLIDS	TOTAL PHOSPHORUS
02-NOV	545	AUTO.	E9	0.053	1441.7	1.74
02-NOV	745	AUTO.	E10	0.054	1047.2	1.53
02-NOV	945	AUTO.	E11	0.062	580.0	0.99
02-NOV	1145	AUTO.	E12	0.120	399.9	0.77
02-NOV	1345	AUTO.	E13	0.195	321.2	0.63
02-NOV	1545	AUTO.	E14	0.255	248.5	0.61
02-NOV	1745	AUTO.	E15	0.253	334.5	0.67
02-NOV	1945	AUTO.	E16	0.236	254.9	0.59
02-NOV	2145	AUTO.	E17	0.223	197.9	0.505
02-NOV	2345	AUTO.	E18	0.214	183.7	0.435
03-NOV	145	AUTO.	E19	0.225	138.6	0.45
03-NOV	345	AUTO.	E20	0.350	120.2	0.42
03-NOV	545	AUTO.	E21	1.400	115.5	0.41
03-NOV	745	AUTO.	E22	1.570	110.5	0.39
03-NOV	945	AUTO.	E23	1.600	116.9	0.395
03-NOV	1145	AUTO.	E24	1.520	100.8	0.37
04-NOV	1115	INT.	214	0.867	75.8	0.375
04-NOV	1115	AUTO.	F1	0.867	86.7	0.356
06-NOV	1100	AUTO.	H1	0.332	83.6	0.24
12-NOV	1145	AUTO.	H2	0.268	115.5	0.23
12-NOV	1145	INT.	216	0.268	42.4	0.206
12-NOV	1145	AUTO.	M1	0.268	41.7	0.175
12-NOV	1545	AUTO.	M2	0.282	38.3	0.17
12-NOV	1945	AUTO.	M3	0.272	77.2	0.26
13-NOV	2345	AUTO.	M4	0.264	54.2	0.205
13-NOV	345	AUTO.	M5	0.256	80.7	0.22
13-NOV	745	AUTO.	M6	0.264	80.5	0.27
13-NOV	1145	AUTO.	M7	0.266	43.5	0.195
13-NOV	1545	AUTO.	M8	0.263	45.5	0.2
13-NOV	1945	AUTO.	M9	0.263	92.1	0.265
14-NOV	2345	AUTO.	M10	0.265	65.2	0.23
14-NOV	345	AUTO.	M11	0.258	81.1	0.25
14-NOV	745	AUTO.	M12	0.251	65.9	0.285
14-NOV	1145	AUTO.	M13	0.257	58.6	0.235
14-NOV	1545	AUTO.	M14	0.283	52.7	0.24
14-NOV	1945	AUTO.	M15	0.268	79.5	0.26
15-NOV	2345	AUTO.	M16	0.243	52.4	0.215
15-NOV	345	AUTO.	M17	0.226	79	0.21
15-NOV	745	AUTO.	M18	0.214	74.8	0.19
15-NOV	1145	AUTO.	M19	0.202	47	0.16
15-NOV	1200	AUTO.	M20	0.198	40.9	0.195
15-NOV	1200	INT.	219	0.198	51	0.152
15-NOV	1800	AUTO.	01	0.192	76.8	0.162
15-NOV	2400	AUTO.	02	0.185	104.4	0.21
16-NOV	600	AUTO.	03	0.192	143.8	0.24
16-NOV	1200	AUTO.	04	1.04	806.2	1.17
16-NOV	1800	AUTO.	05	0.855	298	0.625
16-NOV	2400	AUTO.	06	0.48	115.1	0.405
17-NOV	600	AUTO.	07	0.365	89.9	0.302

STATION - JOHN CLARK DRAIN						
DATE	TIME	SAMPLE TYPE	S.G.	STREAM FLOW	SUSP. SOLIDS	TOTAL PHOSPHORUS
19-NOV	1830	AUTO.	P1	0.44	326.2	0.67
20-NOV	30	AUTO.	P2	0.463	132.5	0.445
20-NOV	630	AUTO.	P3	0.37	111.4	0.35
20-NOV	1230	AUTO.	P4	0.287	58.6	0.275
20-NOV	1830	AUTO.	P5	0.245	69.8	0.255
21-NOV	30	AUTO.	P6	0.214	97.6	0.255
21-NOV	630	AUTO.	P7	0.2	74.9	0.216
21-NOV	1230	AUTO.	P8	0.187	56.5	0.158
21-NOV	1830	AUTO.	P9	0.181	58.4	0.168
22-NOV	30	AUTO.	P10	0.176	79.4	0.196
22-NOV	630	AUTO.	P11	0.172	493.1	0.855
22-NOV	1230	AUTO.	P12	0.397	105.1	0.214
25-NOV	1300	GRAB	39568	0.144	122.8	0.165
25-NOV	1300	INT.	39568	0.144	31.8	

SAMPLE RESULTS - HUBBARD DRAIN
1985

DATE	TIME	SAMPLE TYPE	CORR NO.	FLOW CMS	SUSP. SOLIDS	TOTAL PHOS.
28-MAR		INT.	201	0.704	3849.7	5.5
28-MAR		INT.	204	0.386	1607.6	3.18
29-MAR		INT.	206	0.235	204.6	0.485
23-APR	1240	INT.	39456	0.004	11.8	
23-APR	1240	GRAB	39456	0.004	12.1	0.047
27-APR	1247	GRAB	39472	0.004	15.1	0.09
27-APR	1247		39472	0.004	5.5	
13-JUN	1200	INT.	208	0.004	6.4	0.043
13-JUN	1200	AUTO.	A1	0.004	42.0	0.073
13-JUN	2200	AUTO.	A2	0.003	138.7	0.304
14-JUN	800	AUTO.	A3	0.003	52.7	0.157
14-JUN	1800	AUTO.	A4	0.003	90.2	0.157
15-JUN	400	AUTO.	A5	0.003	46.7	0.105
15-JUN	1400	AUTO.	A6	0.003	13.6	0.69
15-JUN	2400	AUTO.	A7	0.004	84.6	0.158
16-JUN	1000	AUTO.	A8	0.005	55.0	0.125
16-JUN	2000	AUTO.	A9	0.004	61.0	0.124
17-JUN	600	AUTO.	A10	0.003	27.8	0.072
17-JUN	1200	AUTO.	C1	0.003	33.7	0.125
17-JUN	1600	AUTO.	C2	0.003	24.3	0.134
17-JUN	2000	AUTO.	C3	0.004	19.7	0.167
17-JUN	2400	AUTO.	C4	0.004	33.9	0.128
18-JUN	400	AUTO.	C5	0.004	34.3	0.125
18-JUN	800	AUTO.	C6	0.004	23.6	0.12
18-JUN	1120	AUTO.	C7	0.004	19.3	0.089
18-JUN	1120	INT.	209	0.004	5.2	0.053
24-JUN		GRAB	39488	0.001	24.3	0.064
24-JUN		INT.	39488	0.001	6.1	
24-JUN	1200	AUTO.	A1	0.001	20.6	0.134
24-JUN	2200	AUTO.	A2	0.001	38.2	0.228
25-JUN	800	AUTO.	A3	0.001	37.1	0.236
25-JUN	1800	AUTO.	A4	0.001	51.8	0.133
26-JUN	400	AUTO.	A5	0.001	50.8	0.136
26-JUN	1400	AUTO.	A6	0.001	48.4	0.214
27-JUN	0	AUTO.	A7	0.001	43.2	0.21
27-JUN	1000	AUTO.	A8	0.001	34.2	0.23
27-JUN	2000	AUTO.	A9	0.001	17.9	0.174
28-JUN	600	AUTO.	A10	0.001	38.4	0.142
28-JUN	1600	AUTO.	A11	0.001	40.9	0.126
29-JUN	200	AUTO.	A12	0.001	39.9	0.1
29-JUN	1200	AUTO..	A13	0.001	42.8	0.156
29-JUN	200	AUTO.	A14	0.001	79.6	0.252
30-JUN	800	AUTO.	A15	0.001	33.1	0.1
30-JUN	1800	AUTO.	A16	0.001	65.7	0.204
01-JUL	400	AUTO.	A17	0.001		0.048
01-JUL	1400	AUTO.	A18	0.001	53.6	0.122

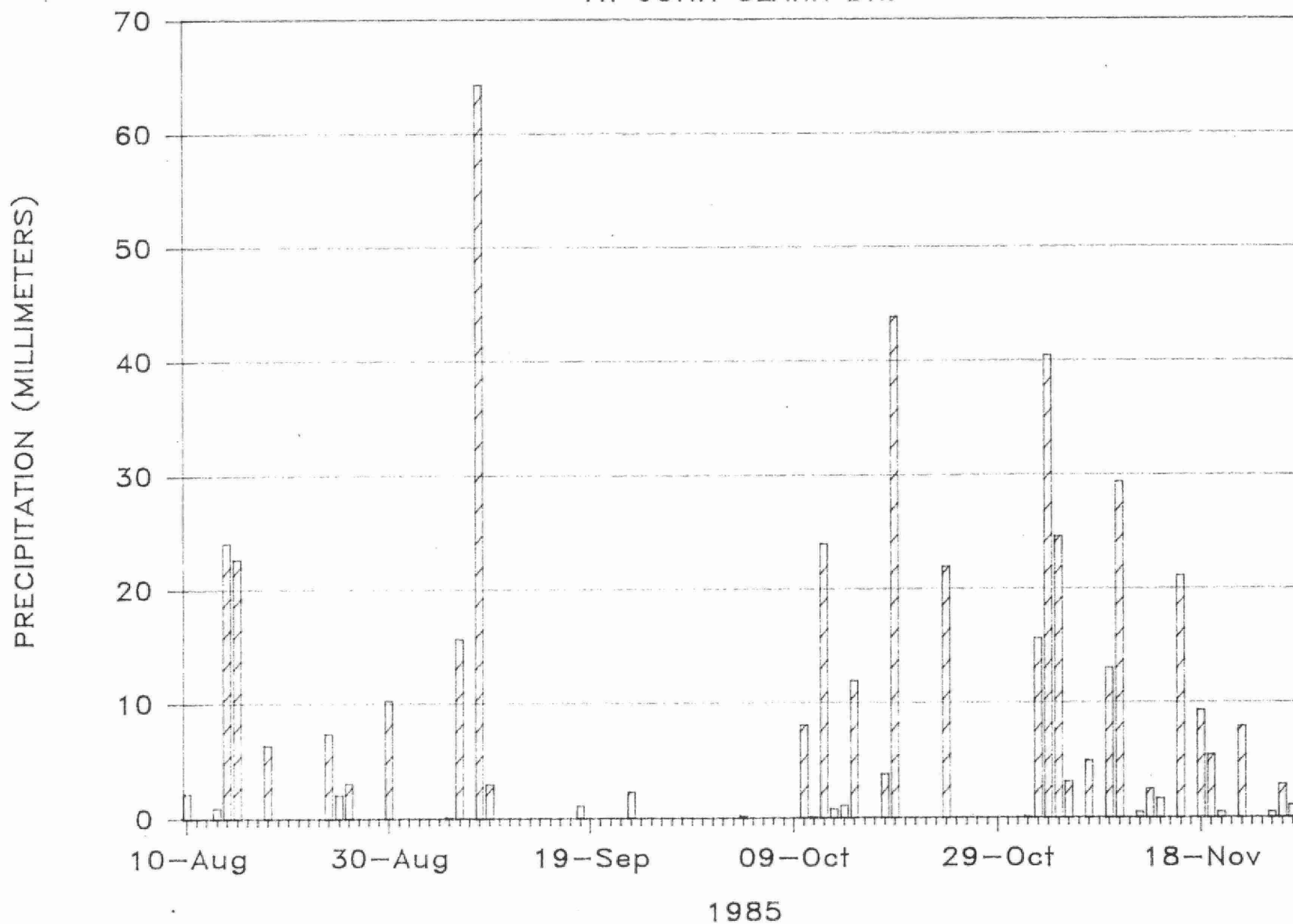
DATE	TIME	SAMPLE TYPE	CORR. NO.	FLOW CMS	SUSP. SOLIDS	TOTAL PHOS.
02-JUL	0	AUTO.	A19	0.001	59.6	0.13
02-JUL	1000	AUTO.	A20	0.00	59.6	0.118
02-JUL	2000	AUTO.	A21	0.001	66.0	0.122
03-JUL	600	AUTO.	A22	0.001	62.3	0.142
03-JUL	1230	AUTO.	A23	0.001	57.6	0.158
05-JUL	2100	AUTO.	B1	0.002	50.7	0.3
06-JUL	300	AUTO.	B2	0.002	83.0	0.25
06-JUL	900	AUTO.	B3	0.002	65.3	0.25
06-JUL	1500	AUTO.	B4	0.001	39.8	0.162
06-JUL	2100	AUTO.	B5	0.001	42.6	0.16
07-JUL	300	AUTO.	B6	0.001	40.9	0.176
07-JUL	900	AUTO.	B7	0.001	36.6	0.198
07-JUL	1500	AUTO.	B8	0.001	25.6	0.184
07-JUL	2100	AUTO.	B9	0.001	38.1	0.25
08-JUL	300	AUTO.	B10	0.001	37.5	0.192
08-JUL	900	AUTO.	B11	0.001	39.0	0.128
08-JUL	1500	AUTO.	B12	0.001	45.9	0.234
08-JUL	2100	AUTO.	B13	0.001	120.2	0.278
09-JUL	300	AUTO.	B14	0.001	68.8	0.324
09-JUL	900	AUTO.	B15	0.001	52.3	0.17
09-JUL	1500	AUTO.	B16	0.001	31.8	0.154
09-JUL	2100	AUTO.	B17	0.001	43.4	0.168
10-JUL	300	AUTO.	B18	0.001	64.3	0.228
10-JUL	900	AUTO.	B19	0.001	27.5	0.148
10-JUL	1500	AUTO.	B20	0.001	21.0	0.142
22-JUL	1216	GRAB	39503	0.001	24.7	0.128
22-JUL	1216	INT.	39503	0.001	25.3	
15-AUG	1050	INT.	210	0.053	355.6	0.545
26-AUG	1255	GRAB	39518	0.002	39.5	0.085
26-AUG	1255	INT.	39518	0.002	19.3	
24-SEP	1351	INT.	39535	0.003	34.9	0.09
24-SEP	1351	GRAB	39535	0.003	45.0	0.095
15-OCT	1000	AUTO.	A1	0.023	113.0	0.3
15-OCT	1000	INT.	212	0.023	65.3	0.25
18-OCT	1015	AUTO.	A2	0.023	249.0	0.39
19-OCT	400	AUTO.	A1	1.9	2832.6	3.82
19-OCT	530	AUTO.	A2	2.6	4059.4	5.05
19-OCT	700	AUTO.	A3	1.6	2072.4	2.7
19-OCT	830	AUTO.	A4	1.19	1095.8	1.75
19-OCT	1000	AUTO.	A5	0.796	782.6	1.58
19-OCT	1130	AUTO.	A6	0.625	617.3	1.25
19-OCT	1300	AUTO.	A7	0.535	516.2	1.08
19-OCT	1430	AUTO.	A8	0.462	478.5	1.02
19-OCT	1600	AUTO.	A9	0.402	410.6	0.85
19-OCT	1730	AUTO.	A10	0.352	359.7	0.79
19-OCT	1900	AUTO.	A11	0.317	310.1	0.71
19-OCT	2030	AUTO.	A12	0.284	294.5	0.69
19-OCT	2200	AUTO.	A13	0.248	297.2	0.67
19-OCT	2330	AUTO.	A14	0.214	268.2	0.62
20-OCT	100	AUTO.	A15	0.179	262.3	0.59
20-OCT	230	AUTO.	A16	0.15	242.2	0.52
20-OCT	400	AUTO.	A17	0.132	222.0	0.5

DATE	TIME	SAMPLE TYPE	CORR. NO.	FLOW CMS	SUSP. SOLIDS	TOTAL PHOS.
20-OCT	530	AUTO.	A18	0.123	199.5	0.48
20-OCT	700	AUTO.	A19	0.112	120.7	0.335
20-OCT	830	AUTO.	A20	0.104	163	0.4
20-OCT	1000	AUTO.	A21	0.097	139.9	0.37
20-OCT	1130	AUTO.	A22	0.091	141	0.34
20-OCT	1300	AUTO.	A23	0.085	138.6	0.24
20-OCT	1430	AUTO.	A24	0.08	134.9	0.295
28-OCT	1255	GRAB	39552	0.012	37.3	0.176
28-OCT	1255	INT.	39552	0.012	38.2	
03-NOV	1300	AUTO.	D1	0.084	645.6	0.925
03-NOV	1400	AUTO.	D2	0.107	353	0.675
03-NOV	1500	AUTO.	D3	0.113	200.5	0.4
03-NOV	600	AUTO.	D4	0.103	181.9	0.4
03-NOV	1700	AUTO.	D5	0.096	200.4	0.385
03-NOV	1800	AUTO.	D6	0.09	126.5	0.315
03-NOV	1900	AUTO.	D7	0.084	89.5	0.27
03-NOV	2000	AUTO.	D8	0.077	567.6	1.01
03-NOV	2100	AUTO.	D9	0.071	794	1.29
03-NOV	2200	AUTO.	D10	0.068	548.4	1.02
04-NOV	1045	INT.	213	0.244	82.4	0.37
04-NOV	1045	AUTO.	G1	0.244	78.3	0.554
06-NOV	1115	INT.	215	0.062	31	0.14
06-NOV	1115	AUTO.	G2	0.062	242.1	0.545
06-NOV	1715	AUTO.	K1	0.053	83.3	0.196
06-NOV	2315	AUTO.	K2	0.048	94.7	0.166
07-NOV	515	AUTO.	K3	0.046	90.5	0.158
07-NOV	1115	AUTO.	K4	0.074	240.3	0.5
07-NOV	1715	AUTO.	K5	0.109	65.1	0.305
07-NOV	2315	AUTO.	K6	0.074	101.2	0.3
08-NOV	515	AUTO.	K7	0.054	99.7	0.22
08-NOV	1115	AUTO.	K8	0.044	44.7	0.134
08-NOV	1715	AUTO.	K9	0.039	2.9	0.206
08-NOV	2315	AUTO.	K10	0.033	86.8	0.162
09-NOV	515	AUTO.	K11	0.031	68.9	0.144
09-NOV	1115	AUTO.	K12	0.029	68.2	0.126
09-NOV	1715	AUTO.	K13	0.061	235.2	0.435
12-NOV	1230	INT.	217	0.056	35.3	0.108
12-NOV	1230	AUTO.	L1	0.056	56.2	0.14
12-NOV	1630	AUTO.	L2	0.056	42.7	0.126
12-NOV	2030	AUTO.	L3	0.055	58.3	0.17
13-NOV	30	AUTO.	L4	0.055	98.8	0.18
13-NOV	430	AUTO.	L5	0.069	223.2	0.425
13-NOV	830	AUTO.	L6	0.089	129.5	0.305
13-NOV	1230	AUTO.	L7	0.081	76.4	0.23
13-NOV	1630	AUTO.	L8	0.079	78.2	0.215
13-NOV	2030	AUTO.	L9	0.076	115.5	0.305
14-NOV	30	AUTO.	L10	0.072	68.2	0.216
14-NOV	430	AUTO.	L11	0.066	102.3	0.255
14-NOV	830	AUTO.	L12	0.062	96	0.205
14-NOV	1230	AUTO.	L13	0.062	89.2	0.21
14-NOV	1630	AUTO.	L14	0.076	90.3	0.255
14-NOV	2030	AUTO.	L15	0.068	100.7	0.27

DATE	TIME	SAMPLE TYPE	CORR. NO.	FLOW CMS	SUSP. SOLIDS	TOTAL PHOS.
15-NOV	30	AUTO.	L16	0.059	85.5	0.215
15-NOV	430	AUTO.	L17	0.052	79.6	0.175
15-NOV	830	AUTO.	L18	0.048	75.4	0.168
15-NOV	1115	AUTO.	L19	0.044	58	0.13
15-NOV	1115	INT.	218	0.044	56.4	0.114
15-NOV	1745	AUTO.	N1	0.038	49.1	0.118
15-NOV	2345	AUTO.	N2	0.036	124.2	0.18
16-NOV	545	AUTO.	N3	0.038	101.1	0.14
16-NOV	1145	AUTO.	N4	0.315	1020.2	2
16-NOV	1745	AUTO.	N5	0.375	638.7	1.01
16-NOV	2345	AUTO.	N6	0.18	421.5	0.925
17-NOV	545	AUTO.	N7	0.11	266.8	0.455
17-NOV	1145	AUTO.	N8	0.079	144	0.324
17-NOV	1745	AUTO.	N9	0.063	99.6	0.276
17-NOV	2345	AUTO.	N10	0.058	132.2	0.282
18-NOV	545	AUTO.	N11	0.052	78.4	0.184
19-NOV	1800	AUTO.	R1	0.093	522.3	0.95
19-NOV	2400	AUTO.	R2	0.214	236.1	0.575
20-NOV	600	AUTO.	R3	0.123	191.8	0.43
20-NOV	1200	AUTO.	R4	0.086	111	0.3
20-NOV	1800	AUTO.	R5	0.064	56.6	0.176
25-NOV	1330	GRAB	39569	0.018	32.6	0.096
25-NOV	1330	INT.	39569	0.018	38	

PRECIPITATION

AT JOHN CLARK DR.



Storm of Oct. 18 - 20, 1985 - Summary

<u>Drain</u>	<u>Sampling</u>	<u>Tonnes Delivered</u>		<u>Drainage</u>	<u>Loading Tonnes/</u>	
	<u>Period</u>	<u>S.S.</u>	<u>T.P.</u>	<u>Area</u>	<u>Acre/Day</u>	
	<u>(Hrs)</u>			<u>(Acres)</u>	<u>S.S.</u>	<u>T.P.</u>
John Clark	30	306.8	0.404	922	0.266	0.00035
Hubbard	41	200.5	0.276	723	0.162	0.00022

Av. Loading S.S. - 0.214 Tonnes/Acre/day

T.P. - 0.00029 Tonnes/Acre/day

Basin Area - 27050 Acres

Total Basin Load S.S. - 5790 Tonnes/day

T.P. - 7.8 Tonnes/day

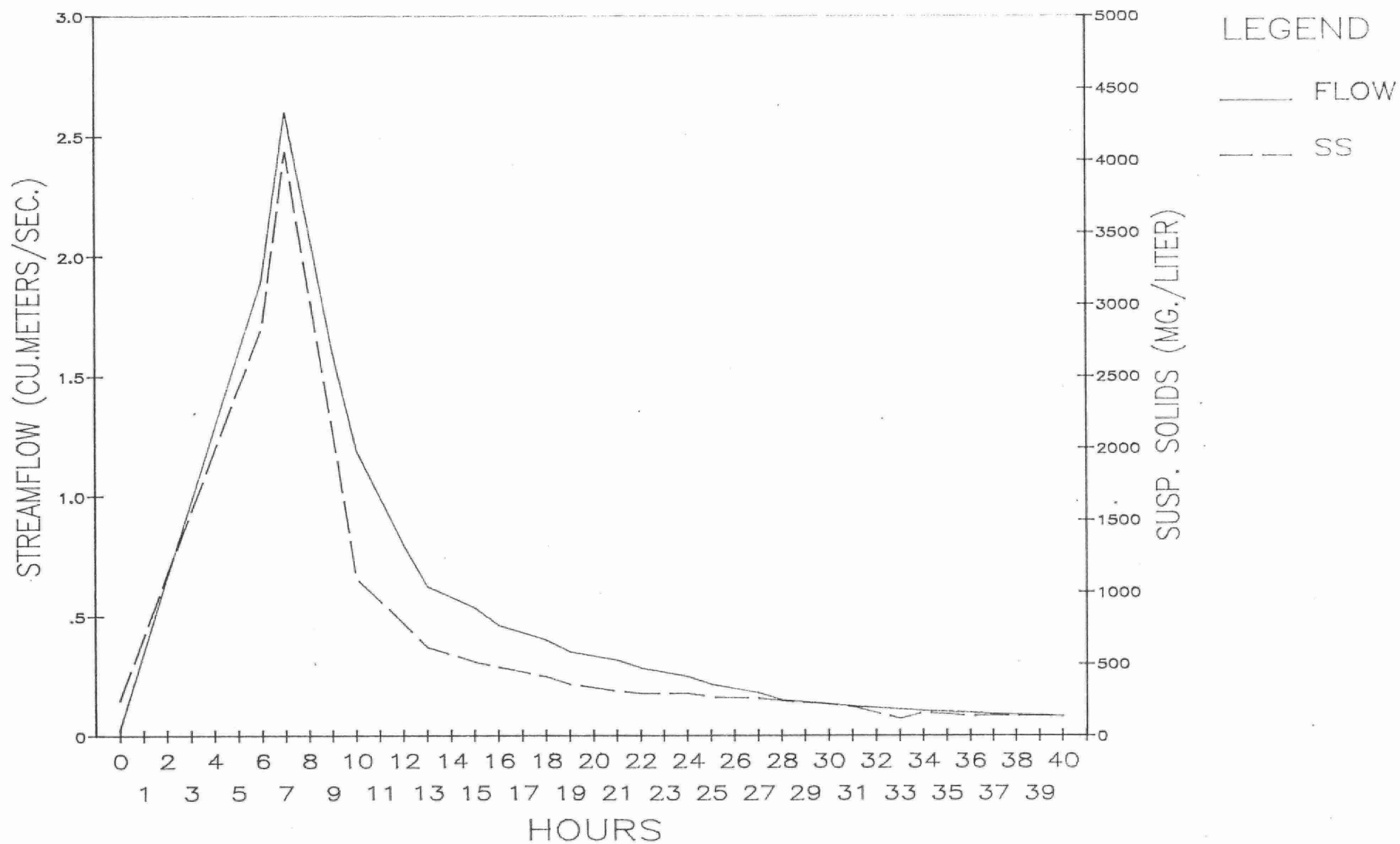
Rain started at approximately 1000 hrs. on October 18 and ended at approximately 1100 hrs. on the 19th.

0.38 cm fell on October 18

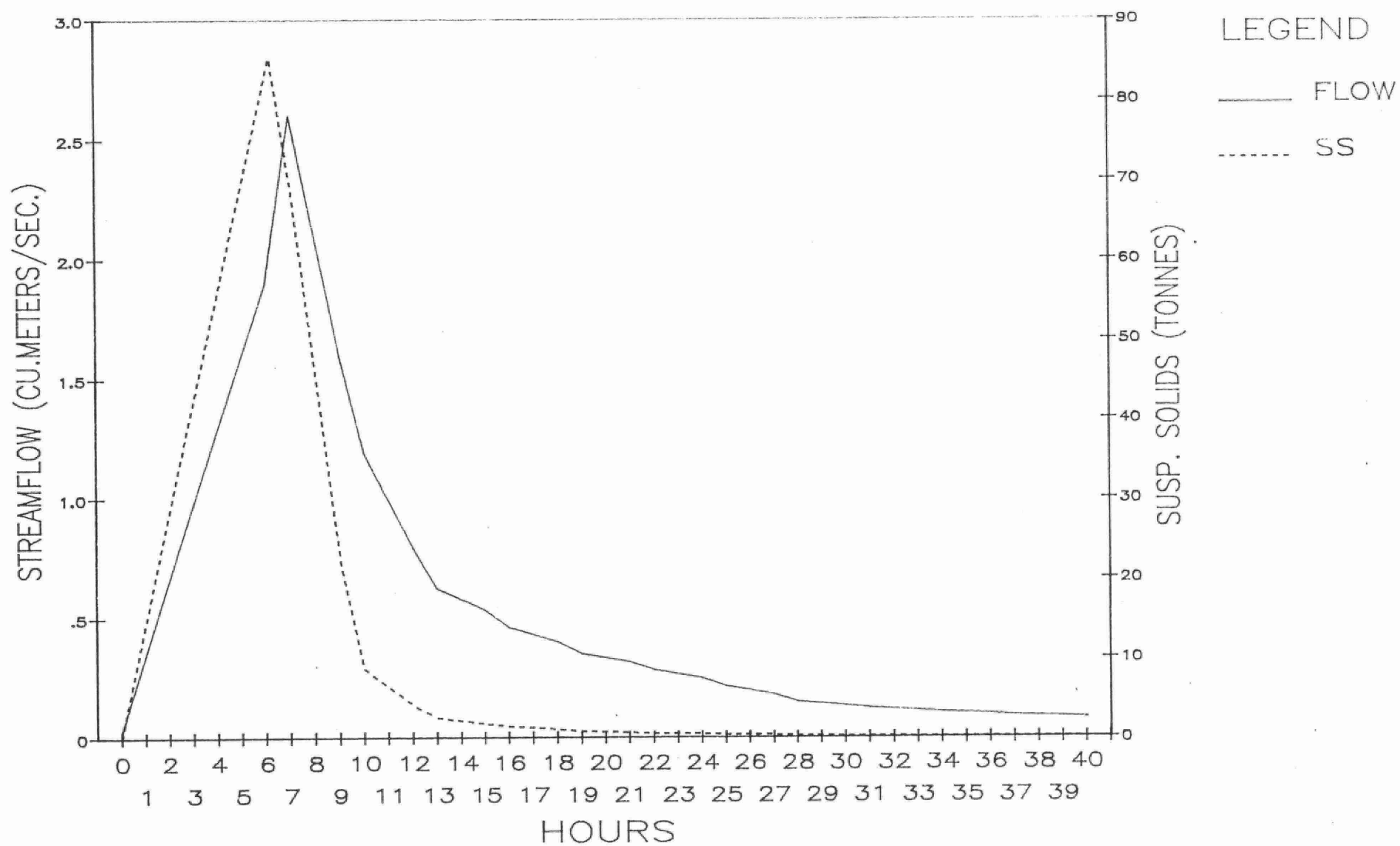
4.39 cm fell on October 19

Graphs plotted for each of John Clark and Hubbard Drains showing a storm hydrograph the Suspended solids concentration and loading time plot and total phosphorus concentration and loading time plot.

RONDEAU BAY TRIB. LOADINGS—1985
HUBBARD DR.
STORM FOR OCT. 18—20



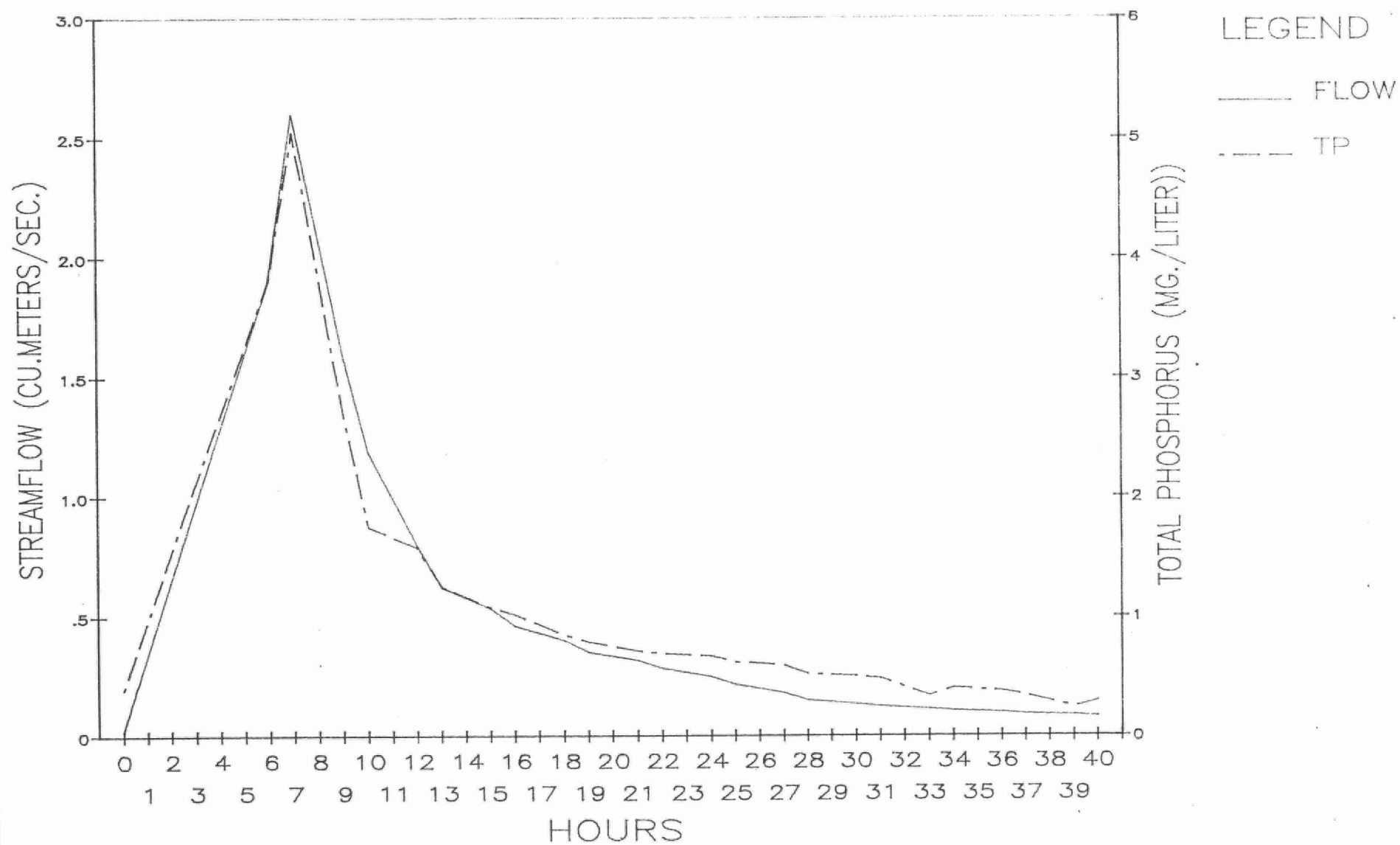
RONDEAU BAY TRIB. LOADINGS—1985
HUBBARD DR.
STORM FOR OCT. 18—20



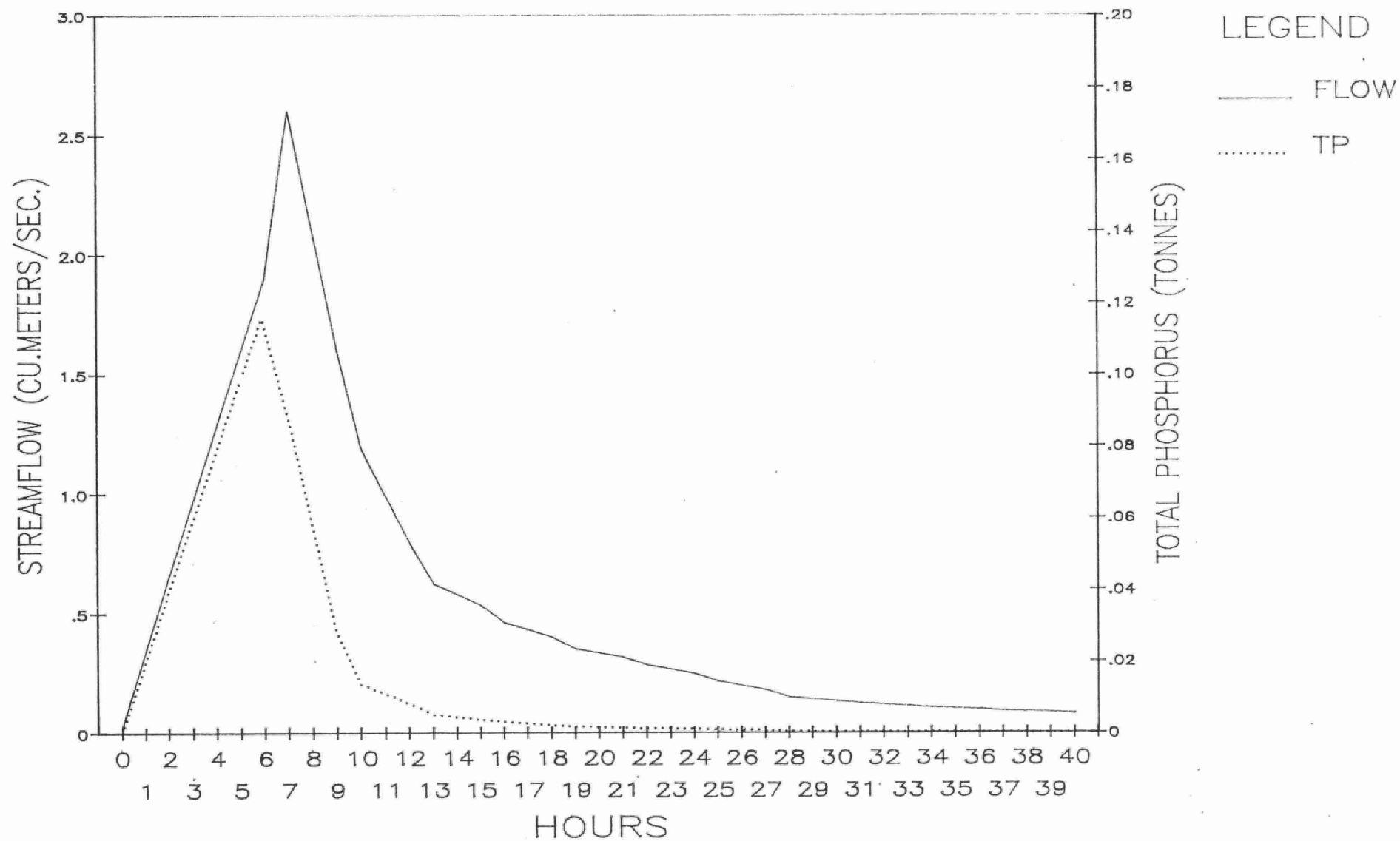
RONDEAU BAY TRIB. LOADINGS—1985

HUBBARD DR.

STORM FOR OCT. 18—20



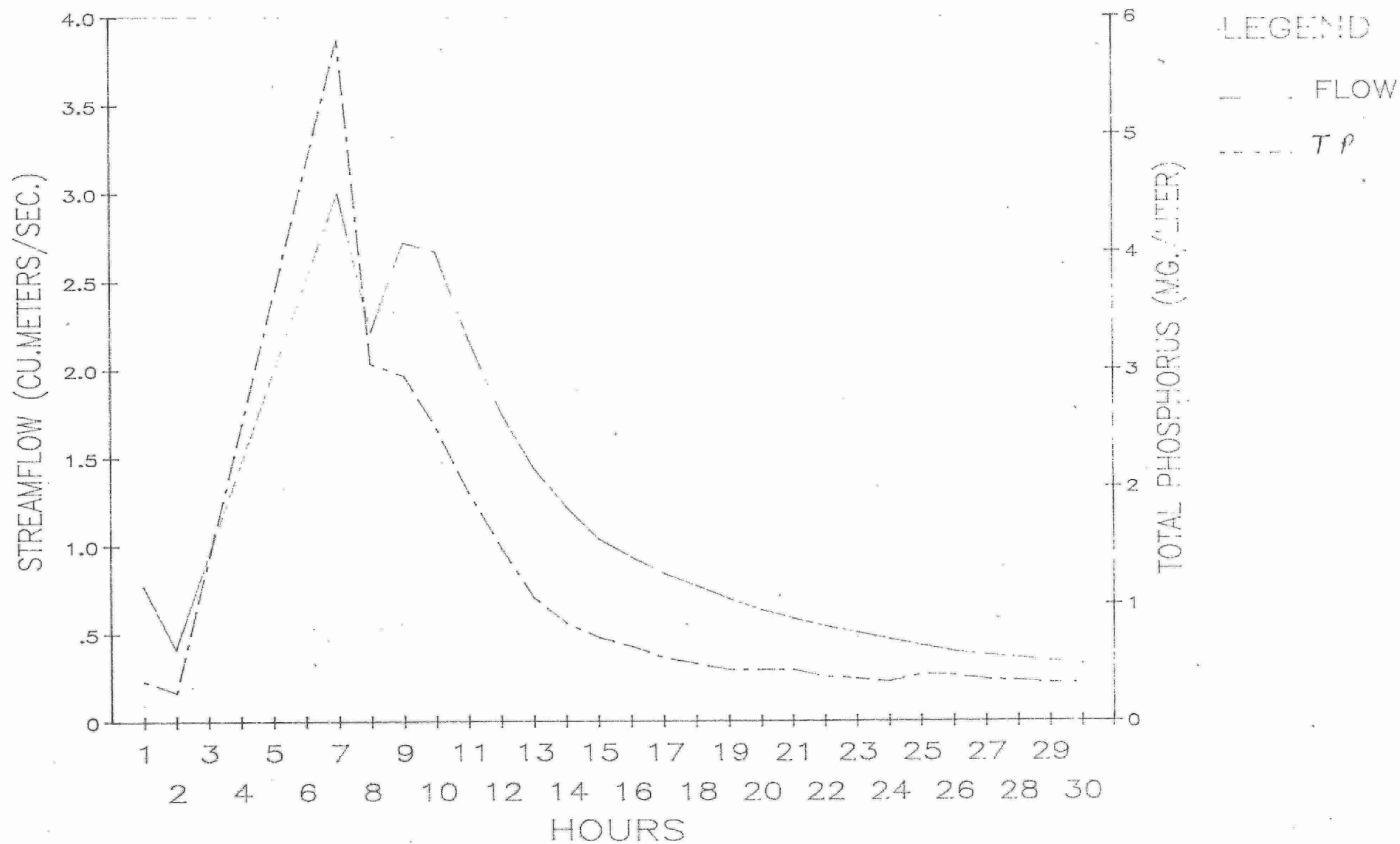
RONDEAU BAY TRIB. LOADINGS—1985
HUBBARD DR.
STORM FOR OCT. 18–20



RONDEAU BAY TRIB. LOADING - 1983

JOHN CLARK DR.

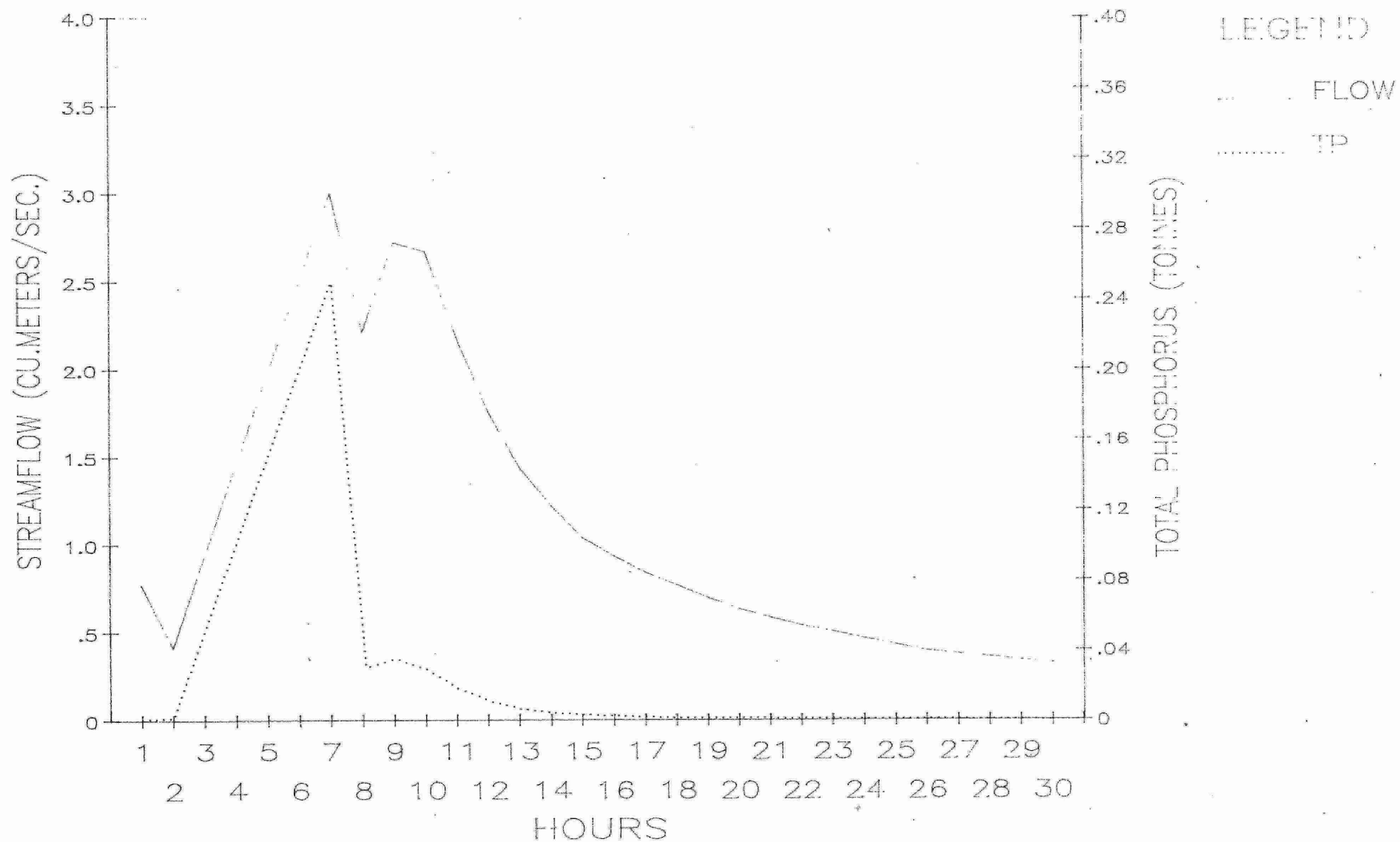
STORM FOR OCT. 18-20



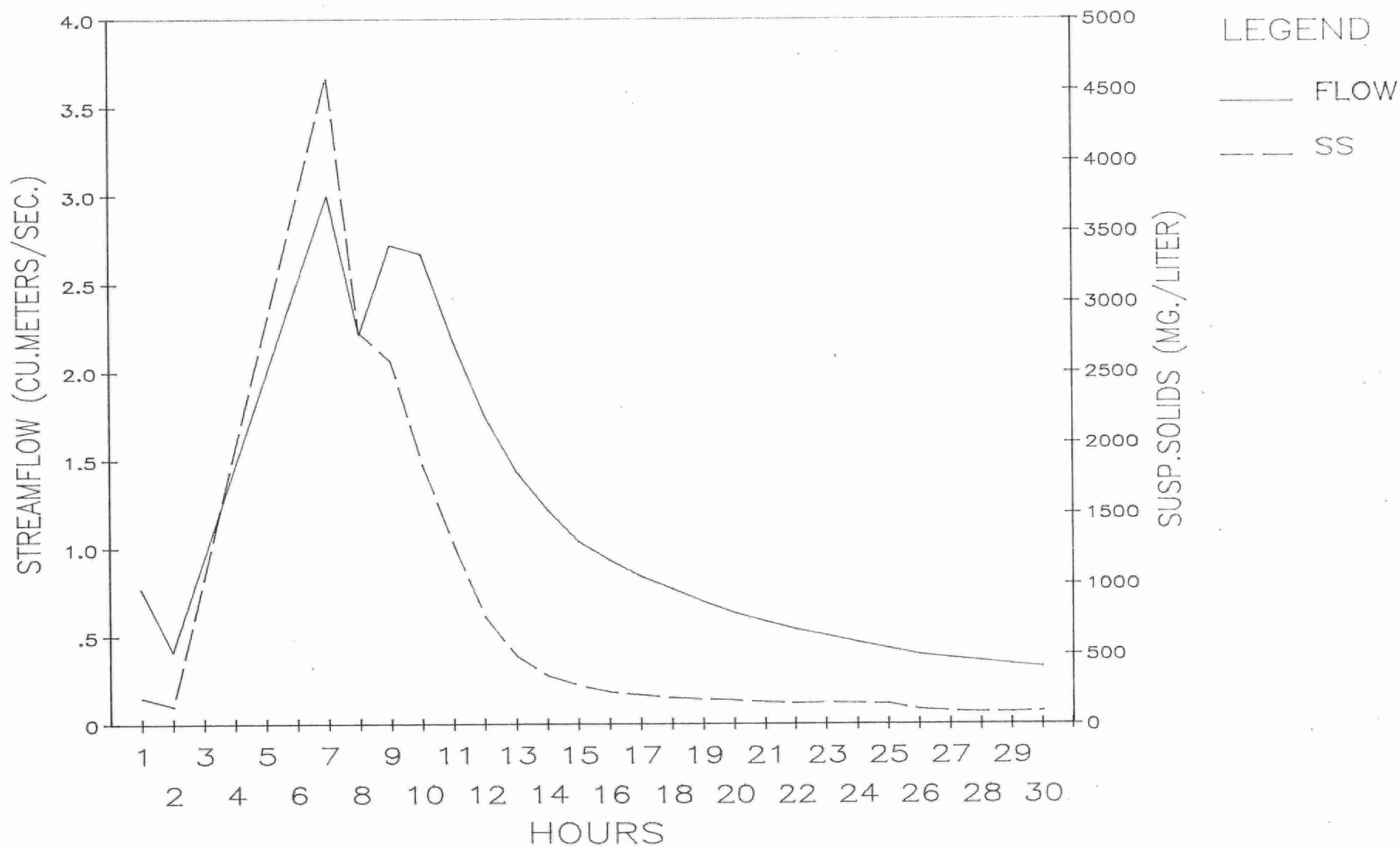
RONDEAU BAY TRIB. LOADINGS 1980

JOHN CLARK DR.

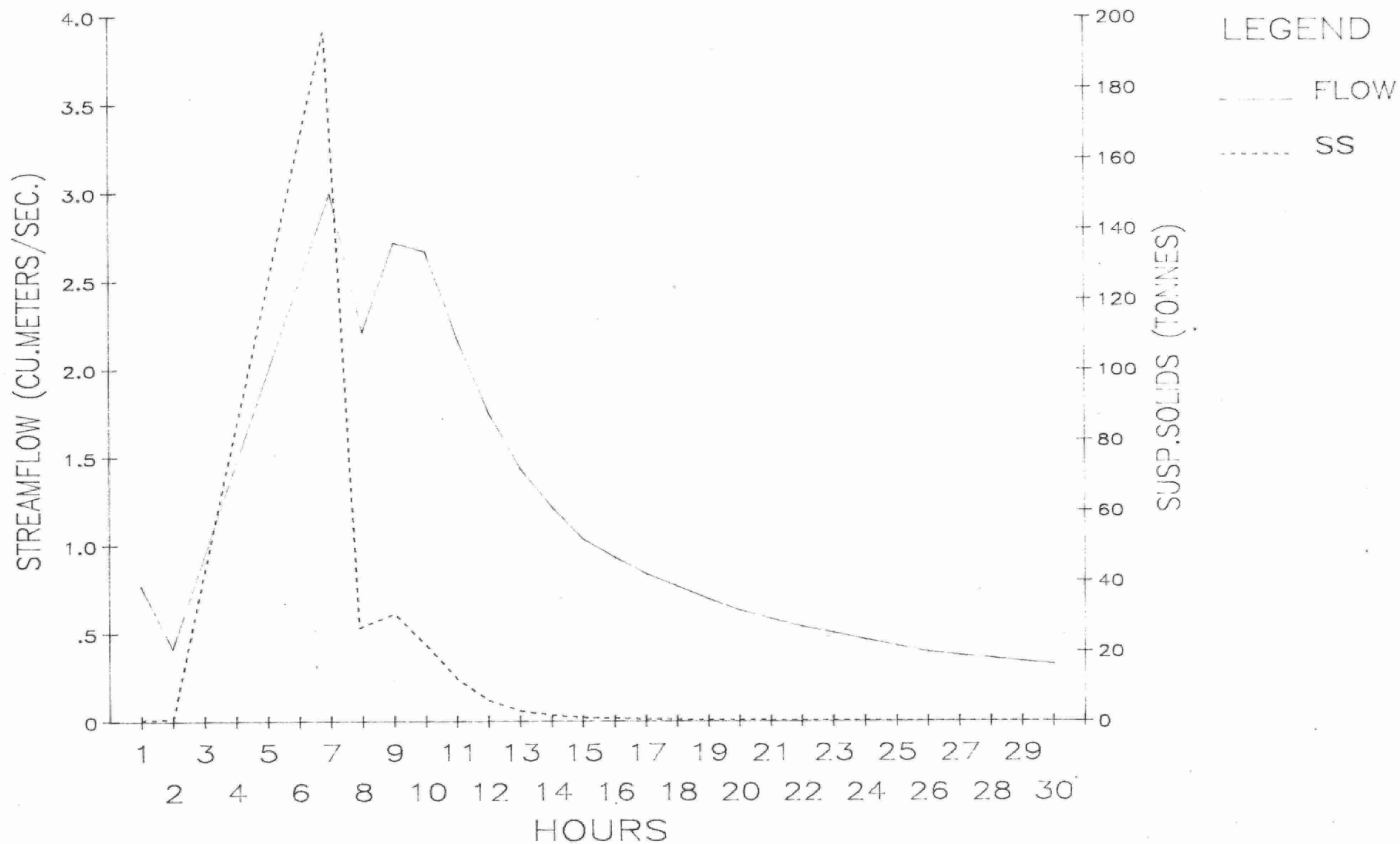
STORM FOR OCT. 18-20



RONDEAU BAY TRIB. LOADINGS—1985
JOHN CLARK DR.
STORM FOR OCT. 18—20



RONDEAU BAY TRIB. LOADINGS—1985
JOHN CLARK DR.
STORM FOR OCT. 18–20



Phytoplankton Data, 1984 & 1985

Phytoplankton samples have been collected at Stations 7 and 10 in Rondeau Bay since 1983.

The analysis record sheets for this sample effort are included in the Appendix of the Rondeau Bay Watershed Data Collection Summary 1983 and the 1984-85 analyses are included in the Appendix of this report.

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-530

Municipality HARWICH twp.Date Analysed Oct. 31, 1985 Date Sampled April 12, 1984Source Rondeau Bay, L. ErieEnumeration Procedure 1/2C, WC; 2r, *6r, **14rStation 7 Depth _____Mic Factor 1/2C 2.00; 89.25 Concentration Factor 2

DIANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Gomphosphaeria</i>	3	Unid. Dinophyceae ^{720μ}	1/2C 589	Unid. Chrysomonad	66
<i>phanothece</i>	1	Unid. Dinophyceae	88	Chrysochromulina parva	30
<i>Synechocystis</i>	2	Gymnodinium	p	Dinobryon	* 238
<i>phanizomenon</i>	p			Mallomonas	p
<i>Oscillatoria</i>	p	TOTAL →	677		
		CRYPTOPHYCEAE	μ^3		
		<i>Rhodomonas</i>	181		
		<i>Cryptomonas</i>	54		
		TOTAL →	235		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	* 12		
TOTAL →	6	TOTAL →	12	TOTAL →	334

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Tetradion</i>	2	<i>Stephanodiscus</i> ^{720μ}	1/2C 156	Ciliate	89.25
<i>Chodatella quadrisceta</i>	1	<i>Stephanodiscus binderanus</i>	WC 476		
<i>Chlamydomonas</i>	* 88	<i>Melosira</i>	WC 236		
<i>Gloeocystis</i>	10	<i>Fragilaria capucine</i>	WC 81		
<i>Koliella</i>	2	<i>F. crotonensis</i>			
<i>Monoraphidium</i>	2	<i>Stephanodiscus</i>	262		
<i>Cenedesmus</i>	1	<i>Asterionella formosa</i>	** 131		
Unid. Green Zoospore	1	<i>Nitzschia</i>	** 136	TOTAL →	89.25
		<i>Cyclotella</i>	16		
		<i>Synedra</i>	90		
		<i>Surirella</i>	57		
		<i>Rhizosolenia</i>	p		
		<i>Diatoma elongatum</i>	p		
		<i>Navicula</i>	p		
		<i>Tabellaria fenestrata</i>	p		
TOTAL →	107	TOTAL →	1641		

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

3012 X 10³

REMARKS:

quite large amount of detritus

SIGNED: C. Lea

PLANKTON ANALYSIS

FILE NUMBER

SAMPLE NUMBER

5-0

84-531

Municipality HARWICH Twp.

Date Analysed Oct. 30, 1985 Date Sampled April 12, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 2r at 600x; *10, **20 r at 300x; 1/2C

Station 10 Depth

Mic Factor 89.25; 8.6308; 2.00 ^{1/2} $2 \times [17] =$ Concentration Factor 2

CYANOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
<i>Gomphosphaeria</i>	10	μ^3	Unid. Dinophyceae ($> 20\mu$)	*	2528	Unid. Chrysomonad	129	μ^3
<i>Oscillatoria</i>	32		Unid. Dinophyceae		186	<i>Chrysochromulina parva</i>	97	
			<i>Gymnodinium</i>		p	<i>Dinobryon sociale</i>	352	
			TOTAL	→	2714	<i>Chrysolykos planktonicus</i>	3	
			CRYPTOPHYCEAE		μ^3	<i>Mallomonas</i>	18	
			<i>Katablepharis</i>		4			
			<i>Rhodomonas</i>		105			
			<i>Cryptomonas</i>		96			
			TOTAL	→	205			
			EUGLENOPHYCEAE		μ^3			
			<i>Phacus</i>		66			
			<i>Euglena</i>		p			
TOTAL	→	42	TOTAL	→	66	TOTAL	→	599
CHLOROPHYCEAE			BACILLARIOPHYCEAE			ZOOPLANKTON		
	μ^3			μ^3			No. Organisms per ML	
<i>Koliella</i>	4		<i>Stephanodiscus</i> ($> 20\mu$)	* *	551	<i>Ciliate</i>	44.63	
<i>Chlamydomonas</i>	344		<i>S. binderanus</i>	1/2 C	1002	<i>Immature Copepoda</i>	p	
<i>Gloeocystis</i>	36		<i>Melosira</i>	1/2 C	243			
<i>Monoraphidium</i>	10		<i>Fragilaria crotonensis</i>	1/2 C	127			
<i>Oocystis</i>	9		<i>F. capucine</i>					
<i>Unid. Green Zoospore</i>	1		<i>Stephanodiscus</i>		384			
<i>Schroederia</i>	p		<i>Asterionella formosa</i>		118			
<i>Coelastrum</i>	p		<i>Surirella</i>		202	TOTAL	→	44.63
<i>Staurastrum</i>	p		<i>Cyclotella</i>		39			
			<i>Synedra</i>		78			
			<i>Nitzschia</i>		7			
			<i>Navicula</i>		35			
			<i>Tabellaria fenestrata</i>		p			
TOTAL	→	404	TOTAL	→	2776	REMARKS:		
TOTAL AREAL STANDARD UNITS PER ML			TOTAL CUBIC MICRONS PER ML			SIGNED: C. Lee		
OR			6806 x 10 ³					

SIGNED: L. Lee

MOE 0899 6/82

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-608

Municipality HARWICH twp
 Source Rondeau Bay L. Erie
 Station 10 Depth _____

Date Analysed Oct. 28, 1985 Date Sampled May 2, 1984
 Enumeration Procedure 1/2 C at 300x; 1 radius
 Mic Factor 2.00; 178.50 $2 \times \text{CF} =$ 2 Concentration Factor

DIANOPHYCEAE		μ^3	DINOPHYCEAE			CHRYSTOPHYCEAE		μ^3
<i>Gomphosphaeria</i>		4	Unid. Dinophyceae		p	Unid. Chrysomonad		77
<i>Aphanizomenon</i>		p	<i>Gymnodinium</i>		p	<i>Chrysochromulina parva</i>		49
<i>Thormidium</i>		p				<i>Mallomonas</i>		44
TOTAL								
			CRYPTOPHYCEAE		μ^3			
			<i>Rhodomonas</i>		168			
			<i>Cryptomonas</i>		96			
TOTAL					264			
			EUGLENOPHYCEAE		μ^3			
			<i>Euglena</i>		68			
TOTAL		4	TOTAL		68	TOTAL		170
CHLOROPHYCEAE		μ^3	BACILLARIOPHYCEAE		μ^3	ZOOPLANKTON		No. Organisms per ML
<i>Scenedesmus</i>		111	<i>Stephanodiscus</i>		918	<i>Keratella</i>		p
<i>Monoraphidium</i>		5	<i>Stephanodiscus</i> 720 μ	1/2 C	876	Immature Copepod		p
<i>Lastrum</i>		16	<i>S. binderanus</i>	1/2 C	1068	<i>Polyarthra</i>		p
<i>Chlamydomonas</i>		3	<i>Fragilaria crotonensis</i>	1/2 C	169			
<i>Podatella quadriseta</i>		3	<i>F. capucine</i>					
<i>Microactinium</i>		6	<i>Melosira</i>	1/2 C	184			
<i>Loeocystis</i>		16	<i>Nitzschia</i>		164			
Unid. Green Zoospore		4	<i>Cyclotella</i>		122	TOTAL		
<i>Ulothrix</i>		5	<i>Synedra</i>		116			
<i>Loeocystis</i>		6	<i>Surirella</i>		134			
			<i>Navicula</i>		21			
			<i>Tabellaria fenestrata</i>		p			
			<i>Cymatopleura</i>		p			
			<i>Asterionella formosa</i>		p			
			<i>Coscinodiscus</i>		p			
TOTAL		175	TOTAL		3772			
TOTAL AREA STANDARD UNITS PER ML								
TOTAL CUBIC MICRONS PER ML					4453 $\times 10^3$			

REMARKS:

very large amount of detritus

SIGNED:

C. Lea

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-609

Municipality HARWICH twp.

Date Analysed Oct. 24, 1985

Date Sampled May 2, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 1, * 2; radii/1/2 C, WC at 300x

Station 7 Depth _____

Mic Factor 178.50; 1/2 C, 1.00 WC Concentration Factor 2 x 51.7 = 2

CYANOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
	μ^3						μ^3	
<i>Phormidium</i>	35		<i>Gymnodinium</i>	p		<i>Unid. Chrysoomonad</i>	97	
<i>Lyngbya</i>	9					<i>Stelexomonas</i>	4	
<i>Aphanothece</i>	3					<i>Chrysochromulina parva</i>	38	
<i>Gomphosphaeria</i>	5					<i>Dinobryon</i>	11	
<i>Aphanizomenon</i>	p		TOTAL	→	-	<i>Mallomonas</i>	146	
			CRYPTOPHYCEAE		μ^3			
			<i>Cryptomonas</i>		28			
			<i>Rhodomonas</i>		141			
			<i>Katablepharis</i>		7			
			TOTAL	→	176			
			EUGLENOPHYCEAE					
			<i>Euglena</i>		p			
TOTAL	→	52	TOTAL	→	-	TOTAL	→	296
CHLOROPHYCEAE			BACILLARIOPHYCEAE			ZOOPLANKTON		
	μ^3				μ^3		No. Organisms per ML	
<i>Pediastrum boryanum</i>	40		<i>Stephanodiscus</i>		608	<i>Keratella</i>	p	
<i>Actinastrum</i>	1		<i>Stephanodiscus</i> (> 20 μ)	1/2 C	426	<i>Cyclops</i>	p	
<i>Monoraphidium</i>	16		<i>S. binderanus</i>	WC	277			
<i>Docystis</i>	14		<i>Fragilaria crotonensis</i>	WC	155			
<i>Chlamydomonas</i>	51		<i>F. capucine</i>					
<i>Glaucocystis</i>	13		<i>Nitzschia</i>		171			
<i>Chodatella quadriseta</i>	5		<i>Synedra</i>	*	279			
<i>Scenedesmus</i>	34		<i>Cyclotella</i>		100	TOTAL	→	-
<i>Tetrastrum</i>	7		<i>Surirella</i>		56	REMARKS: very large amount of detritus		
<i>Crucigenia tetrapedia</i>	p		<i>Asterionella formosa</i>		p			
			<i>Coscinodiscus</i>		p			
			<i>Tabellaria fenestrata</i>		p			
			<i>Navicula</i>		p			
			<i>Melosira</i>		p			
			<i>Cymatopleura</i>		p			
TOTAL	→	181	TOTAL	→	2072	SIGNED: C. Lea		
TOTAL AREA OF STANDARD GRIDS PER ML								
TOTAL CUBIC MICRONS PER ML			2777 X 10 ³					

OR

MOE 0899 6/82

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-879

Municipality HARWICH Twp.Date Analysed Oct. 23, 1985Date Sampled May 11, 1984Source Rondeau Bay L. ErieEnumeration Procedure 2 radiiStation 7 DepthMic Factor 89.25 $2 \times [1] =$
Concentration Factor 2

CYANOPHYCEAE		μ^3	DINOPHYCEAE		μ^3	CHRYSTOPHYCEAE		μ^3
<i>Aphanothece</i>		p	Unid. Dinophyceae		70	<i>Mallomonas</i>		20
<i>Merismopedia</i>		p	<i>Gymnodinium</i>		p	Unid. Chryseomonad		45
<i>Gomphosphaeria</i>		3				<i>Chrysochromulina parva</i>		110
<i>Aphanizomenon</i>		4				<i>Chromulina</i>		1
<i>Coelosphaerium</i>		2	TOTAL	→	70			
			CRYPTOPHYCEAE		μ^3			
			<i>Rhodomonas</i>		500			
			<i>Katablepharis</i>		12			
			<i>Cryptomonas</i>		57			
			TOTAL	→	569			
			EUGLENOPHYCEAE					
TOTAL	→	9	TOTAL	→	-	TOTAL	→	176
CHLOROPHYCEAE		μ^3	BACILLARIOPHYCEAE		μ^3	ZOOPLANKTON		No. Organisms per ML
<i>Chlamydomonas</i>		59	<i>Stephanodiscus</i>		241	<i>Ciliate</i>		401.63
<i>Monoraphidium</i>		11	<i>Synedra</i>		131	<i>Diffugia</i>		44.63
<i>Scenedesmus</i>		85	<i>Nitzschia</i>		81	<i>Flagellate</i>		44.63
Unid. Green Zoospore		p	<i>Cyclotella</i>		48	<i>Cyclops</i>		p
<i>Brucigenia tetrapedia</i>		1	<i>Tabellaria fenestrata</i>		56	<i>Polyarthra</i>		p
<i>Tetraëdron</i>		2	<i>Fragilaria crotonensis</i>		148			
<i>Tetrastrum</i>		11	<i>F. capucine</i>		p			
<i>Micractinium</i>		7	<i>Asterionella formosa</i>		119	TOTAL	→	490.89
<i>Treubaria</i>		5	<i>Melosira</i>		p			
<i>Dictyosphaerium</i>		p	<i>Surirella</i>		p			
<i>Koliella</i>		7	<i>Cymatopleura</i>		p			
<i>Gloeocystis</i>		22	<i>Diatoma elongatum</i>		p			
<i>Chodatella quadriseta</i>		7	<i>Stephanodiscus binderanus</i>		p			
<i>Pocystis</i>		5						
<i>Pediastrum duplex</i>		p						
TOTAL	→	222	TOTAL	→	824			
TOTAL CUBIC MICRONS PER ML			→		1870 x 10 ³			

REMARKS:

SIGNED: C. Lea

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-880

Municipality HARWICH TWP.

Date Analysed October 21, 1985 Date Sampled May 11, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 1, *4, **12 r

Station 10 Depth _____

Mic Factor 178.50 Concentration Factor 2 x [17] = 2

CYANOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
<i>Gomphosphaeria</i>		6	<i>Unid. Dinophyceae</i>	**	127	<i>Unid. Chrysomonad</i>		69
<i>Aphanotheca</i>		1	<i>Gymnodinium</i>	*	55	<i>Chrysochromulina parva</i>		95
<i>Lyngbya</i>		2				<i>Mallomonas</i>	**	159
<i>Oscillatoria</i>		p				<i>Dinobryon</i>		p
<i>Anabaena</i>		p	TOTAL →		182			
<i>Phormidium</i>		p	CRYPTOPHYCEAE					
			<i>Rhodomonas</i>		745			
			<i>Cryptomonas</i>	*	968			
			<i>Katablepharis</i>		2			
			TOTAL →		1715			
			EUGLENOPHYCEAE					
			<i>Euglena</i>	*	53			
			<i>Phacus</i>		p			
TOTAL →		9	TOTAL →		53	TOTAL →		323
CHLOROPHYCEAE			BACILLARIOPHYCEAE			ZOOPLANKTON		
<i>Chlamydomonas</i>		71	<i>Synedra</i>		55	<i>Ciliate</i>		89.25
<i>Unid. Green Zoospore</i>		1	<i>Nitzschia</i>		18	<i>Diffugia</i>		p
<i>Gloeocystis</i>		43	<i>Cyclotella</i>		23	<i>Keratella</i>		p
<i>Monoraphidium</i>		10	<i>Stephanodiscus</i>		241			
<i>Cosmarium</i>		16	<i>S. binderanus</i>	*	59			
<i>Micractinium</i>		12	<i>Navicula</i>		5			
<i>Chodatella quadriseta</i>		6	<i>Melosira</i>		30			
<i>Scenedesmus</i>		45	<i>Tabellaria fenestrata</i>		p	TOTAL →		89.25
<i>Dictyosphaerium</i>	*	33	<i>Surirella</i>		p	REMARKS: Very large amount of detritus		
<i>Coelastrum</i>		3	<i>Asterionella formosa</i>		p			
<i>Actinastrum</i>		5	<i>Fragilaria capucine</i>		p			
<i>Oocystis</i>		2	<i>F. crotonensis</i>		p			
<i>Tetrastrum</i>		23	<i>Cymatopleura</i>		p			
<i>Pediastrum boryanum</i>		p						
<i>Closterium</i>		11				SIGNED: <u>C. Lea</u>		
TOTAL →		281	TOTAL →		431			
TOTAL AREAL STANDARD UNITS PER ML			TOTAL CUBIC MICRONS PER ML			2994 x 10 ³		

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1006

Municipality HARWICH TWP.Date Analysed October 18, 1985 Date Sampled May 31, 1984Source Rondeau Bay L. ErieEnumeration Procedure 4, * 8, ** 22rStation 7 Depth _____Mic Factor 44.625 $2 \times C13 =$ Concentration Factor 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE		CHRYSTOPHYCEAE	μ^3
<i>Chroococcus</i>	1	Unid. Dinophyceae	p	<i>Chrysochromulina parva</i>	84
<i>Gomphosphaeria</i>	1	<i>Gymnodinium</i>	p	<i>Dinobryon sociale</i>	10
<i>Aphanothoece</i>	2			<i>D. bavaricum</i>	
<i>Microcystis</i>	1			Unid. Chrysomonad	18
<i>Merismopedia</i>	p	TOTAL →	—	Unid. Chrysophyte	1
<i>Lyngbya</i>	p	CRYPTOPHYCEAE	μ^3	<i>Mallomonas</i>	p
<i>Aphanizomenon</i>	p	<i>Rhodomonas</i>	103		
		<i>Katablepharis</i>	2		
		<i>Cryptomonas</i>	** 82		
		TOTAL →	187		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
		<i>Phacus</i>	p		
TOTAL →	5	TOTAL →	—	TOTAL →	113

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Scenedesmus</i>	53	<i>Stephanodiscus binderanus</i> *	22	<i>Ciliate</i>	22.31
<i>Coecystis</i>	1	<i>Stephanodiscus</i>	50	<i>Diffugia</i>	p
<i>Ankistrodesmus</i>	p	<i>Tabellaria fenestrata</i> *	15		
<i>Dictyosphaerium</i>	1	<i>Cyclotella</i>	6		
<i>Lucigenia tetrapedia</i>	p	<i>Synedra</i>	11		
<i>Monoraphidium</i>	2	<i>Fragilaria capucina</i>	7		
<i>Microactinium</i>	1	<i>F. crotonensis</i>	p		
<i>Chlamydomonas</i>	4	<i>Melosira</i>	p	TOTAL →	22.31
<i>Eloecystis</i>	7	<i>Asterionella formosa</i>	p		
<i>Tetrastrum</i>	1	<i>Gyrosigma</i>	p		
<i>Pediastrum tetras</i>	p	<i>Coscinodiscus</i>	p		
<i>P. boryanum</i>	p	<i>Navicula</i>	p		
<i>Podatella quadriseta</i>	p	<i>Surirella</i>	p		
<i>Quadrigula</i>	p				
<i>Tetraedron</i>	p				
<i>Cosmarium</i>	p				
<i>Pedogonium</i>	p				
<i>Schroederia</i>	p				
TOTAL →	70	TOTAL →	111		

REMARKS:

SIGNED: C. Lea

TOTAL AREAL STAND. RD UNITO PER ML

TOTAL CUBIC MICRONS PER ML

486 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1007

Municipality HARWICH TWP.
 Source Rondeau Bay L. Erie
 Station 10 Depth

Date Analysed Oct. 17, 1985 Date Sampled May 31, 1984
 Enumeration Procedure *1, 2, **8, **20 radii
 Mic Factor 89.25 Concentration Factor 2 x 17 = 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE		CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	11	<i>Gymnodinium</i>	p	<i>Unid. Chrysomonad</i>	60
<i>Lyngbya</i>	6	<i>Unid. Dinophyceae</i>	p	<i>Chrysochromulina parva</i> *	285
<i>Microcystis</i>	6			<i>Dinobryon bavaricum</i>	27
<i>Gomphosphaeria</i>	2			<i>D. sociale</i>	
<i>Coelosphaerium</i>	2	TOTAL →	-	<i>D. divergens</i> ✓	
<i>Merismopedia</i>	p	CRYPTOPHYCEAE	μ^3	<i>Unid. Chrysophyte</i>	p
<i>Aphanizomenon</i>	p	<i>Rhodomonas</i>	* 413	<i>Mallomonas</i>	p
<i>Chroococcus</i>	p	<i>Cryptomonas</i>	** 355		
<i>Phormidium</i>	p	<i>Katablepharis</i>	2		
		TOTAL →	770		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
TOTAL →	27	TOTAL →	-	TOTAL →	372

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Dictyosphaerium</i>	1	<i>Cyclotella</i>	24	<i>Keratella</i>	p
<i>Dasytis</i>	6	<i>Stephanodiscus</i>	295		
<i>Scenedesmus</i> **	101	<i>Synedra</i>	34		
<i>Ankistrodesmus</i>	1	<i>Nitzschia</i>	24		
<i>Gloeocystis</i>	24	<i>Asterionella formosa</i>	** 33		
<i>Monoraphidium</i>	3	<i>Diatoma elongatum</i>	** 12		
<i>Microactinium</i>	3	<i>Fragilaria capucine</i>	* 26		
<i>Pediastrum tetras</i>	25	<i>Tabellaria fenestrata</i>	** 12		
<i>P. boryanum</i>	p			TOTAL →	-
<i>Chodatella quadriseta</i>	7	<i>Fragilaria crotonensis</i>	p		
<i>Crucigenia tetrapedia</i>	3	<i>Melosira</i>	p		
<i>Chlamydomonas</i> **	51	<i>Surirella</i>	p		
<i>Schroederia</i>	p				
<i>Oedogonium</i>	p				
<i>Closterium</i>	p				
<i>Coelastrum</i>	p				
TOTAL →	225	TOTAL →	460		

REMARKS:

SIGNED: C. Lee

TOTAL AREA STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1854 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1008

Municipality HARWICH twp.
 Source Rondeau Bay L. Erie
 Station 7 Depth

Date Analysed Oct. 15, 1985 Date Sampled June 5, 1984

Enumeration Procedure 2, *10, ** 20 r

Mic Factor 89.25 Concentration Factor 2 x F12 = 2

DIATOMACEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Microcystis</i>	3	Unid. Dinophyceae	34	<i>Chrysochromulina parva</i>	135
<i>Gomphosphaeria</i>	2			Unid. Chrysomonad	52
<i>Phanotroche</i>	23			<i>Mallomonas</i>	9
<i>Phanizomenon</i>	4			<i>Dinobryon divergens</i>	44
		TOTAL →	34	<i>Salpingoeca</i>	1
		CRYPTOPHYCEAE	μ^3	Unid. Chrysophyte	3
		<i>Cryptomonas</i>	* 300		
		<i>Rhodomonas</i>	175		
		<i>Katablepharis</i>	59		
		TOTAL →	534		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
		<i>Phacus</i>	p		
TOTAL →	32	TOTAL →	-	TOTAL →	244

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Chlamydomonas</i>	51	<i>Synedra</i>	31	<i>Ciliate</i>	178.50
<i>Microactinium</i>	7	<i>Cyclotella</i>	2	<i>Keratella</i>	p
<i>Chlorella</i>	1	<i>Nitzschia</i>	10		
<i>Crucigenia tetrapedia</i>	3	<i>Stephanodiscus</i>	34		
<i>Plectyosphaerium</i>	1	<i>Asterionella formosa</i>	43		
<i>Scenedesmus</i>	11	<i>Tabellaria fenestrata</i>	* 44		
<i>Chlorella</i>	9	<i>Fragilaria crotonensis</i>	* 62		
<i>Tetradon</i>	6	<i>F. capucine</i>		TOTAL →	178.50
<i>Docystis</i>	54	<i>Navicula</i>	p		
<i>Monoraphidium</i>	3	<i>Cymatopleura</i>	p		
<i>Staurastrum</i>	p	<i>Surirella</i>	p		
<i>Pediastrum simplex</i>	p	<i>Stephanodiscus binderanus</i>	p		
<i>P. boryanum</i>	p				
<i>Chodatella ciliata</i>	p				
<i>Chlorella</i>	p				
<i>Actinostrium</i>	p				
<i>Closterium</i>	p				
<i>Pediastrum</i>	p				
TOTAL →	146	TOTAL →	226		

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1216 x 10³

REMARKS:

SIGNED: C. Lee

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1009

Municipality HARWICH twp.Date Analysed Oct. 10, 1985 Date Sampled June 5, 1984Source Rondeau Bay L. ErieEnumeration Procedure 2, *6, **20rStation 10 Depth _____Mic Factor 89.25 $2 \times 17 =$ Concentration Factor 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	23	Unid. Dinophyceae *	158	<i>Chrysochromulina parva</i>	177
<i>Merismopedia</i>	p	<i>Gymnodinium</i>	p	Unid. Chrysomonad	125
<i>Lyngbya</i>	1			<i>Dinobryon sociale</i> }	* 68
<i>Oscillatoria</i>	23			<i>D. divergens</i> }	
<i>Coelosphaerium</i>	2	TOTAL →	158	<i>Mallomonas</i>	29
<i>Gomphosphaeria</i>	p	CRYPTOPHYCEAE	μ^3	<i>Salpingoeca</i>	p
<i>Anabaena</i>	p	<i>Cryptomonas</i> *	447		
		<i>Rhodomonas</i>	154		
		<i>Katablepharis</i>	34		
		TOTAL →	635		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i> *	59		
		<i>Phacus</i>	p		
TOTAL →	49	TOTAL →	59	TOTAL →	399

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Monoraphidium</i>	7	<i>Stephanodiscus</i>	26	Ciliate	133.88
<i>Microactinium</i>	7	<i>Synedra</i>	46	Diffugia	p
<i>Scenedesmus</i>	65	<i>Nitzschia</i>	31		
<i>Dictyosphaerium</i>	11	<i>Cyclotella</i>	48		
<i>Crucigenia tetrapedia</i>	3	<i>Diatoma elongatum</i> *	11		
<i>Gloeocystis</i>	23	<i>Surirella</i>	18		
<i>Cosmarium</i>	51	<i>Asterionella formosa</i>	16		
<i>Ankistrodesmus</i>	1	<i>Fragilaria capucine</i> **	150	TOTAL →	133.88
<i>Dacystis</i>	38	<i>F. crotonensis</i>			
<i>Chodatella quadriseta</i>	5	<i>Tabellaria fenestrata</i> **	91	REMARKS:	
<i>Pediastrum boryanum</i>	29	<i>Navicula</i>	p		
<i>P. duplex</i>	p	<i>Cymatopleura</i>	p		
<i>P. tetras</i>	p				
<i>Chlamydomonas</i>	20				
<i>Staurastrum</i>	p				
<i>Coelastrum</i>	p				
TOTAL →	260	TOTAL →	437		

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1997 x 10³SIGNED: P. Lee

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1123

Municipality HARWICH TWP.
 Source Rondeau Bay L. Erie
 Station 7 Depth

Date Analysed Oct. 8, 1985 Date Sampled June 14, 1984
 Enumeration Procedure 2, *5, **10, **22 r (see Note)
 Mic Factor 89.25 Concentration Factor 2

DIATOMOPHYCEAE	μ^3	DINOPHYCEAE		CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	42	<i>Ceratium hirundinella</i>	p	<i>Unid. Chrysomonad</i>	17
<i>Thomposphaeria</i>	6			<i>Salpingoeca</i>	1
<i>Microcystis</i>	7			<i>Uroglena</i>	3
<i>Merismopedia</i>	2			<i>Unid. Chrysophyte</i>	2
<i>Threococcus</i>	1	TOTAL →	-	<i>Chrysochromulina parva</i>	15
		CRYPTOPHYCEAE	μ^3	<i>Dinobryon</i>	* 82
		<i>Cryptomonas</i>	** 444		
		<i>Rhodomonas</i>	209		
		<i>Katablepharis</i>	6		
		TOTAL →	659		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	30		
TOTAL →	58	TOTAL →	30	TOTAL →	120

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Docystis</i>	* 231	<i>Asterionella formosa</i>	** 113	<i>Iseratella</i>	44.63
<i>Scenedesmus</i>	71	<i>Nitzschia</i>	10	<i>Polyarthra</i>	p
<i>Pictyosphaerium</i>	p	<i>Stephanodiscus</i>	41	<i>Diffugia</i>	p
<i>Chodatella</i>	4	<i>Synedra</i>	2		
<i>Eloecystis</i>	32	<i>Cyclotella</i>	12		
<i>Tetraedron</i>	2	<i>Melosira</i>	16		
<i>Crucigenia tetrapedia</i>	4	<i>Fragilaria crotonensis</i> F. capucine	1/2 C 158		
<i>Monoraphidium</i>	2	<i>Tabellaria fenestrata</i>	1/2 C 59	TOTAL →	44.63
<i>Chlamydomonas</i>	17	<i>Cocconeis</i>	p		
<i>Ankistrodesmus</i>	1	<i>Cymatopleura</i>	p		
<i>Coelastrum</i>	26	<i>Surirella</i>	p		
<i>Schroederia</i>	14				
<i>Oedogonium</i>	p				
<i>Microactinium</i>	4				
<i>Quadrigala</i>	p				
<i>Botryococcus</i>	p				
<i>Astracistrum</i>	p				
<i>Pediastrum duplex</i>	p				
<i>Cosmarium</i>	p				
<i>Glosterium</i>	p				
TOTAL →	408	TOTAL →	411		

REMARKS:

Enumeration Procedure for
Tabellaria fenestrata and
Fragilaria crotonensis
F. capucine
 = 1/2 C
 Enumeration factor = 2.00
 Concentration factor = $5 \times [1] = 5$

SIGNED: C. Lea~~TOTAL AREAL STANDARD UNITS PER ML~~

TOTAL CUBIC MICRONS PER ML →

 1686×10^3

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1124

Municipality HARWICH TWP. Date Analysed Oct. 7, 1985 Date Sampled June 14, 1984
 Source Rondeau Bay L. Erie Enumeration Procedure 5, * 10, ** 20x
 Station 10 Depth Mic Factor 35.70 Concentration Factor 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Gomphosphaeria</i>	7	<i>Ceratium hirundinella</i> **	134	<i>Unid. Chrysomonad</i>	7
<i>Microcystis</i>	4	<i>Unid. Dinophyceae</i>	4	<i>Dinobryon divergens</i> *	33
<i>Aphanathece</i>	9			<i>Chrysochromulina parva</i>	1
<i>Coelosphaerium</i>	2			<i>Unid. Chrysophyte</i>	1
<i>Lyngbya</i>	5	TOTAL →	138		
		CRYPTOPHYCEAE	μ^3		
		<i>Cryptomonas</i> *	1169		
		<i>Rhodomonas</i>	83		
		<i>Katabelepharis</i>	P		
		TOTAL →	1252		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	P		
TOTAL →	27	TOTAL →	-	TOTAL →	42

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Docystis</i>	296	<i>Navicula</i>	4	<i>Ciliate</i>	35.70
<i>Scenedesmus</i> *	81	<i>Cyclotella</i>	19	<i>Diffugia</i>	P
<i>Coelastrum</i>	18	<i>Stephanodiscus</i>	8	<i>Keratella</i>	P
<i>Monoraphidium</i>	P	<i>Tabellaria fenestrata</i> **	47		
<i>Staurastrum</i> *	39	<i>Amphora</i>	40		
<i>Closterium</i> *	31	<i>Asterionella formosa</i> **	93		
<i>Gloeocystis</i>	8	<i>Synedra</i>	5		
<i>Chodatella</i>	P	<i>Nitzschia</i> *	46		
<i>Schroederia</i>	10	<i>Fragilaria crotonensis</i> **	146	TOTAL →	35.70
<i>Ankistrodesmus</i>	P	<i>Surirella</i>	P		
<i>Crucigenia tetrapedia</i>	1	<i>Amphiprora ornata</i>	P		
<i>Chlamydomonas</i>	P	<i>Stephanodiscus binderana</i>	P		
<i>Cosmarium</i>	P				
<i>Pediastrum duplex</i>	P				
<i>P. simplex</i>	P				
TOTAL →	484	TOTAL →	408		

REMARKS:

SIGNED: C. Lea

OR TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2351 X 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1178

Municipality HARWICH TWP.

Date Analysed Oct. 4, 1985

Date Sampled June 20, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure WC at 300x; 6r, *20r (see remarks)

Station 7 Depth

Mic Factor 1.00; 29.75 Concentration Factor 2

DIATOMOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Gomphosphaeria</i>	8	<i>Ceratium hirundinella</i> ^{2WC at 552}	73	<i>Dinobryon divergens</i>	5
<i>Belosphaerium</i>	5			Unid. Chrysohyte	p
<i>Microcystis</i>	2			Unid. Chrysomonad	1
<i>Phanerotheca</i>	2			<i>Mallomonas</i>	p
<i>Merismopedia</i>	1	TOTAL →	73		
<i>Saphidiopsis</i>	1	CRYPTOPHYCEAE	μ^3		
<i>Synechocystis</i>	1	<i>Cryptomonas</i> *	426		
<i>Chroococcus</i>	p	<i>Rhodomonas</i>	28		
<i>Anabaena</i>	p	TOTAL →	454		
		EUGLENOPHYCEAE			
		<i>Phacus</i>	p		
		<i>Euglena</i>	p		
TOTAL →	20	TOTAL →	-	TOTAL →	6

PHYLLOPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Oocystis</i>	151	<i>Fragilaria crotonensis</i> WC	140	<i>Ciliate</i>	29.75
<i>Nephrochlamys</i>	p	<i>Cyclotella</i>	4	<i>Copepoda</i>	p
<i>Pediastrum simplex</i>	12	<i>Stephanodiscus</i>	4	<i>Diffugia</i>	p
<i>Scenedesmus</i>	21	<i>Tabellaria fenestrata</i>	p	<i>Keratella</i>	p
<i>Tetraëdron</i>	p			<i>Polyarthra</i>	p
<i>Boelastrum</i>	2				
<i>Loeocystis</i> *	30				
<i>Crucigenia tetrapedia</i>	1			TOTAL →	29.75
<i>Thalassiosira</i>	p				
<i>Monoraphidium</i>	1				
<i>Chrooceria</i>	3				
<i>Quadrifida</i>	p				
<i>Traubaria</i>	p				
<i>Podatella</i>	p				
<i>Polysaccus</i>	p				
<i>Closterium</i>	p				
<i>Cosmarium</i>	p				
<i>Taurastrum</i>	p				
<i>Pediastrum duplex</i>	p				
<i>Scenedesmus</i>	p				
TOTAL →	221	TOTAL →	148		

REMARKS:

for *Ceratium hirundinella* only:

Enumeration Procedure = 2x WC

Concentration factor = 5 x [1] : 5

Enumeration factor = 0.50

SIGNED: C. Lea

TOTAL CUBIC MICRONS PER ML

922 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1179

Municipality HARWICH TWP.

Date Analysed October 3, 1985

Date Sampled June 20, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 3, *6 radii

Station 10

Depth

Mic Factor 59.50

Concentration Factor 2 x [17] = 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothera</i>	20	<i>Ceratium hirundinella</i>	31	<i>Dinobryon divergens</i>	4
<i>Gomphosphaeria</i>	22			<i>Salpingoecce</i>	1
<i>Merismopedia</i>	1			<i>Unid. Chrysomonad</i>	5
<i>Anabaena</i>	4			<i>Mallomonas</i>	1
<i>Lyngbya</i>	4	TOTAL →	31	<i>Chrysochromulina parva</i>	1
<i>Microcystis</i>	8	CRYPTOPHYCEAE	μ^3		
<i>Chroococcus</i>	p	<i>Cryptomonas</i>	* 1058		
		<i>Rhodomonas</i>	77		
		TOTAL →	1135		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	22		
TOTAL →	59	TOTAL →	22	TOTAL →	12

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Monoraphidium</i>	p	<i>Stephanodiscus</i>	15	<i>Ciliate</i>	29.75
<i>Nephrochlamys</i>	1	<i>Fragilaria crotonensis</i>	* 14	<i>Keratella</i>	p
<i>Oocystis</i>	345	<i>Cyclotella</i>	7	<i>Diffugia</i>	p
<i>Scenedesmus</i>	* 175	<i>Melosira</i>	p		
<i>Gloeocystis</i>	138				
<i>Dictyosphaerium</i>	p				
<i>Tetraëdron</i>	3				
<i>Coelastrum</i>	2				
<i>Nephrocystium</i>	19			TOTAL →	29.75
<i>Crucigenia tetrapedia</i>	11				
<i>Schroederia</i>	5				
<i>Ankistrodesmus</i>	p				
<i>Micractinium</i>	1				
<i>Quadrigula</i>	2				
<i>Dictyosphaerium</i>	p				
<i>Chlamydomonas</i>	1				
TOTAL →	703	TOTAL →	36		

REMARKS:

Chlorophyceae also present:
Pediastrum duplex
P. simplex
Cosmarium
Closterium

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1998 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1334

Municipality Harwich twp.

Date Analysed Sept. 30, 1985

Date Sampled July 5, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 3, **6, *10r

Station 7

Depth

Mic Factor 59.50

Concentration Factor 2

DIANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanathece</i>	32	<i>Unid. Dinophyceae</i>	56	<i>Unid. Chrysomonad</i>	22
<i>Pomphosphaeria</i>	28	<i>Gymnodinium</i>	p	<i>Dinobryon divergens</i>	3
<i>Merismopedia</i>	10	<i>Ceratium hirundinella</i>	p	<i>Chrysochromulina parva</i>	8
<i>Coelosphaerium</i>	3			<i>Mallomonas</i>	2
<i>Lyngbya</i>	1	TOTAL →	56		
<i>Raphidiopsis</i>	6	CRYPTOPHYCEAE	μ^3		
<i>Anabaena</i>	* 73	<i>Rhodomonas</i>	86		
<i>Microcystis</i>	3	<i>Cryptomonas</i>	* 421		
<i>Chroococcus</i>	p	<i>Katablepharis</i>	4		
<i>Aphanizomenon</i>	p	TOTAL →	511		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
TOTAL →	156	TOTAL →	-	TOTAL →	35

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Crucigenia sp.</i>	16	<i>Cyclotella</i>	9	<i>Polyarthra</i>	p
<i>C. tetrapedia</i>		<i>Stephanodiscus</i>	1	<i>Daphnia</i>	p
<i>Coelastrum</i>	2	<i>Nitzschia</i>	3		
<i>Gloeocystis</i>	61	<i>Synedra</i>	2		
<i>Ankistrodesmus</i>	1	<i>Fragilaria crotonensis</i>	p		
<i>Oocystis</i>	** 122	<i>Surirella</i>	p		
<i>Leptocryptum</i>	3				
<i>Tetraëdron</i>	1				
<i>Seneddesmus</i>	* 61			TOTAL →	-
<i>Schroederia</i>	5				
<i>Chlamydomonas</i>	p				
<i>Chodatella</i>	p				
<i>Quadrigula</i>	p				
<i>Diastrium duplex</i>	p				
<i>Cosmarium</i>	p				
<i>Botryococcus</i>	p				
<i>Staurastrum</i>	p				
<i>Volvox</i>	p				
TOTAL →	272	TOTAL →	15		

REMARKS:

SIGNED: C. Ken

TOTAL CUBIC MICRONS PER ML

1045x10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1335

Municipality Harwich twp.

Date Analysed Sept. 26, 1985 Date Sampled July 5, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 2, *10r at 600x; **20r at 300x

Station 10 Depth

Mic Factor 89.25; **4.3154 Concentration Factor 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Gomphosphaeria</i>	20	<i>Unid. Dinophyceae</i>	17	<i>Unid. Chrysomonad</i>	20
<i>Coelosphaerium</i>	11	<i>Ceratium hirundinella</i>	p	<i>Chrysochromulina parva</i>	21
<i>Aphanothera</i>	45			<i>Unid. Chrysophyte</i>	1
<i>Merismopedia</i>	10			<i>Salpingoeca</i>	p
<i>Anabaena</i>	** 223	TOTAL →	17	<i>Mallomonas</i>	2
<i>Lyngbya</i>	8	CRYPTOPHYCEAE	μ^3	<i>Dinobryon sociale</i>	25
<i>Microcystis</i>	3	<i>Rhodomonas</i>	68	<i>D. divergens</i>	
<i>Raphidiopsis</i>	p	<i>Cryptomonas</i>	* 273	<i>D. crenulatum</i>	
<i>Chroococcus</i>	p				
		TOTAL →	341		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
TOTAL →	320	TOTAL →	-	TOTAL →	69

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Crucigenia tetrapedia</i>	21	<i>Cyclotella</i>	12	<i>Ciliate</i>	89.25
<i>Dictyosphaerium</i>	1	<i>Synedra</i>	8	<i>Diffugia</i>	p
<i>Oocystis</i>	172	<i>Stephanodiscus</i>	3	<i>Polyarthra</i>	p
<i>Chodatella</i>	11	<i>Tabellaria fenestrata</i>	33		
<i>Gloeocystis</i>	44	<i>Nitzschia</i>	2		
<i>Pediastrum simplex</i>	34	<i>Fragilaria crotonensis</i>	p		
<i>P. duplex</i>	p	<i>Melosira</i>	p		
<i>Schroederia</i>	3	<i>Navicula</i>	p		
<i>Nephroclytium</i>	5			TOTAL →	89.25
<i>Coelastrum</i>	11				
<i>Actinastrum</i>	1				
<i>Microactinium</i>	1				
<i>Monoraphidium</i>	6				
<i>Closterium</i>	15				
<i>Scenedesmus</i>	59				
<i>Ankistrodesmus</i>	2				
<i>Staurastrum</i>	p				
TOTAL →	386	TOTAL →	58		

REMARKS:

SIGNED: C. Lee

OR TOTAL CUBIC MICRONS PER ML

1191 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1409

Municipality HARWICH TWP.

Date Analysed Sept. 24, 1985

Date Sampled July 12, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 2, * 6 radii

Station 7 Depth

Mic Factor 89.25

$2 \times C17 =$
Concentration Factor 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	138	<i>Unid. Dinophyceae</i>	34	<i>Chrysochromulina parva</i>	34
<i>Merismopedia</i>	3	<i>Ceratium hirundinella</i>	p	<i>Unid. Chrysomonad</i>	32
<i>Gomphosphaeria</i>	21			<i>Dinobryon divergens</i>	7
<i>Chroococcus</i>	4			<i>Unid. Chrysophyte</i>	3
<i>Coelosphaerium</i>	4	TOTAL →	34	<i>Bicoeca</i>	1
<i>Raphidiopsis</i>	4	CRYPTOPHYCEAE	μ^3	<i>Mallomonas</i>	5
<i>Lyngbya</i>	15	<i>Rhodomonas</i>	126		
<i>Anabaena</i>	41	<i>Cryptomonas</i> *	353		
<i>Chroococcus</i>	p	<i>Katablepharis</i>	1		
		TOTAL →	480		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i> *	114		
		<i>Phacus</i>			
TOTAL →	230	TOTAL →	114	TOTAL →	82

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Pionoraphidium</i>	27	<i>Cyclotella</i>	157	<i>Ciliate</i>	89.25
<i>Actyosphaerium</i>	5	<i>Stephanodiscus</i>	15	<i>Diffugia</i>	p
<i>Chocystis</i>	96	<i>Synedra</i>	114		
<i>Dacystis</i> *	111	<i>Nitzschia</i>	8		
<i>Cenedesmus</i>	61	<i>Asterionella formosa</i>	p		
<i>Chlamydomonas</i>	13	<i>Fragilaria crotonensis</i>	p		
<i>Rhodotella</i>	30	<i>Tabellaria fenestrata</i>	p		
<i>Crucigenia tetrapedia</i>	19	<i>Melosira</i>	p	TOTAL →	89.25
<i>Isosmarium</i>	10				
<i>Ankistrodesmus</i>	1				
<i>Tetraëdron</i>	4				
<i>Chelastrum</i>	5				
<i>Pediastrum simplex</i>	p				
<i>P. duplex</i>	p				
<i>Aurastrum</i>	p				
<i>Botryococcus</i>	p				
TOTAL →	382	TOTAL →	294		

REMARKS:

SIGNED: C. Lin

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1616 X 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1410

Municipality HARWICH TWP.Date Analysed Sept. 17, 1985 Date Sampled July 12, 1984Source Rondeau Bay L. ErieEnumeration Procedure 2, * 12, ** 22, *** 6 radiiStation 10 Depth _____Mic Factor 89.25 Concentration Factor 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	35	Unid. Dinophyceae	10	Unid. Chryomonad	55
<i>Lyngbya</i>	24	<i>Ceratium hirundinella</i>	p	<i>Chrysochromulina parva</i>	15
<i>Merismopedia</i>	4			<i>Dinobryon sociale</i>	** 21
<i>Gomphosphaeria</i>	5			<i>Salpingoecia</i>	1
<i>Coelosphaerium</i>	2	TOTAL →	10	<i>Bicoeca</i>	2
<i>Anabaena</i>	** 90	CRYPTOPHYCEAE	μ^3	Unid. Chrysophyte	1
<i>Oscillatoria</i>	5	<i>Rhodomonas</i>	58		
<i>Raphidiopsis</i>	2	<i>Cryptomonas</i>	v 205		
		TOTAL →	263		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
TOTAL →	167	TOTAL →	-	TOTAL →	95

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Tricogenia tetrapedia</i>	25	<i>Cyclotella</i>	110	Ciliate	178.50
<i>Scenedesmus</i>	46	<i>Stephanodiscus</i>	28	<i>Diffugia</i>	p
<i>Oocystis</i>	23	<i>Synedra</i>	28	<i>Polyarthra</i>	p
<i>Tetraëdron</i>	2	Unid. Diatom	16	<i>Trichocerca</i>	p
<i>Ankistrodesmus</i>	2	<i>Nitzschia</i>	41		
<i>Coelastrum</i>	17	<i>Melosira</i>	p		
<i>Gloeocystis</i>	7	<i>Navicula</i>	p		
<i>Monoraphidium</i>	3	<i>Surirella</i>	p		
<i>Schroederia</i>	6	<i>Asterionella formosa</i>	p	TOTAL →	178.50
<i>Dictyosphaerium</i>	2	<i>Fragilaria crotonensis</i>	p		
<i>Thlamydomonas</i>	5				
<i>Pediastrum boryanum</i>	** 22				
<i>Quadrigula</i>	p				
<i>Isosmarium</i>	p				
<i>Staurostrum</i>	p				
<i>Chodatella</i>	p				
TOTAL →	160	TOTAL →	223		
TOTAL AREAL STANDARD UNITS PER ML					
TOTAL CUBIC MICRONS PER ML			918x10 ³		

REMARKS:

Also present:

Chlorophyceae - *Pediastrum simplex*
*P. duplex*SIGNED: C. Lea

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1540

Municipality HARWICH TWP.Date Analysed Sept. 9, 1985Date Sampled July 19, 1984Source Rondeau Bay L. ErieEnumeration Procedure 1, *4, ** 10r adjStation 11 (7) ? Depth _____Mic Factor 178.50Concentration Factor 2

DIATOMOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	108	<i>Unid. Dinophyceae</i> **	154	<i>Unid. Chrysophyte</i>	2
<i>Gomphosphaeria</i>	10			<i>Unid. Chrysophyte Cyst</i>	4
<i>Merismopedia</i>	2			<i>Unid. Chrysomonad</i>	28
<i>Raphidiopsis</i>	24			<i>Chrysochromulina parva</i>	52
<i>Oscillatoria</i>	29	TOTAL →	154	<i>Dinobryon</i>	p
<i>Coelosphaerium</i>	15	CRYPTOPHYCEAE	μ^3		
<i>Aphanizomenon</i>	145	<i>Cryptomonas</i> *	408		
<i>Lyngbya</i>	17	<i>Rhodomonas</i>	48		
<i>Anabaena</i>	31				
		TOTAL →	456		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i> **	114		
		<i>Phacus</i>	p		
TOTAL →	381	TOTAL →	114	TOTAL →	86

PHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Gloeocystis</i> *	106	<i>Cyclotella</i>	302	<i>Ciliate</i>	267.75
<i>ocystis</i> *	129	<i>Synedra</i>	65	<i>Di flagia</i>	p
<i>Dictyosphaerium</i>	18	<i>Melosira</i>	51	<i>Kellicottia</i>	p
<i>tetradron</i>	4	<i>Stephanodiscus</i>	4	<i>Polyarthra</i>	p
<i>enedesmus</i>	187	<i>Nitzschia</i>	11		
<i>Monoraphidium</i>	14	<i>Fragilaria crotonensis</i>	p		
<i>ediacstrum duplex</i> } *	54	<i>Surirella</i>	p		
<i>P. tetras</i>					
<i>P. simplex</i>	p				
<i>Schroederia</i>	12			TOTAL →	267.75
<i>hodatella quadriseta</i>	3				
<i>crucigenia sp.</i>					
<i>C. tetrapedia</i>	21				
<i>oelastrium</i>	34				
<i>Ankistrodesmus</i>	11				
<i>Glamydomonas</i>	44				
<i>andorina</i>	p				
<i>Actinastrum</i>	p				
<i>ediacstrum boryanum</i>	p				
TOTAL →	637	TOTAL →	433		

REMARKS:

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2261 x 10³

MOE 0899 6/82

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1541

Municipality HARWICH TWP.

Date Analysed Aug. 28, 1985 Date Sampled July 19, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 1, *4 radii

Station 10 Depth

Mic Factor 178.50 $2 \times \frac{1}{178.50} = 2$ Concentration Factor 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothece</i>	213	<i>Unid. Dinophyceae</i> *	112	<i>Unid. Chrysomonad</i>	69
<i>Microcystis</i>	12	<i>Ceratium hirundinella</i>	p	<i>Unid. Chrysophyte</i>	3
<i>Lyngbya</i>	58			<i>Mallomonas</i>	23
<i>Anabaena</i>	13			<i>Chrysochromulina parva</i>	72
<i>Merismopedia</i>	13	TOTAL →	112	<i>Dinobryon sociale</i>	37
<i>Gomposphaeria</i>	89	CRYPTOPHYCEAE	μ^3	<i>Kephyrion/Pseudok.</i>	2
<i>Coelosphaerium</i>	14	<i>Rhodomonas</i>	92		
<i>Raphidiopsis</i>	15	<i>Cryptomonas</i> *	182		
<i>Oscillatoria</i>	58	<i>Katablepharis</i>	28		
		TOTAL →	302		
		EUGLENOPHYCEAE			
		<i>Phacus</i>	p		
		<i>Euglena</i>	p		
TOTAL →	485	TOTAL →	-	TOTAL →	206

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^2	ZOOPLANKTON	No. Organisms per ML
<i>Gloeocystis</i>	178	<i>Cyclotella</i>	322	<i>Diffugia</i>	89.25
<i>Schroederia</i>	3	<i>Stephanodiscus</i>	17	<i>Ciliate</i>	89.25
<i>Ankistrodesmus</i>	31	<i>Synedra</i>	101	<i>Polyarthra</i>	p
<i>Monoraphidium</i>	43	<i>Nitzschia</i>	5	<i>Kellicottia</i>	p
<i>Cosmarium</i>	24	<i>Achnanthes</i>	15		
<i>Glosterium</i>	37	<i>Coscinodiscus</i>	p		
<i>Crucigenia tetrapedia</i>	12	<i>Melosira</i>	p		
<i>Scenedesmus</i> *	164	<i>Navicula</i>	p	TOTAL →	178.50
<i>Docystis</i>	108	<i>Surirella</i>	p		
<i>Chodatella</i>	28	<i>Gyrosigma</i>	p		
<i>Dictyosphaerium</i>	9	<i>Cymatopleura</i>	p		
<i>Quadrigula</i>	3	<i>Fragilaria crotonensis</i>	p		
<i>Coelastrum</i>	103				
<i>Carteria</i>	79				
<i>Microactinium</i>	8				
<i>Franceia</i>	9				
<i>Chlamydomonas</i>	40				
<i>Tetradra</i>	1				
TOTAL →	880	TOTAL →	466		

REMARKS:

Chlorophyceae also present:
Pediastrum simplex
P. duplex
P. boryanum
Crucigenia sp.
Actinastrum
Pandorina
Mougeotia

SIGNED: C. Lea

OR

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2445 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1631

Municipality HARWICH TWP.

Date Analysed Aug. 16, 1985 Date Sampled July 26, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure * 14 r at 300x; ** 1, 2, * 3 r

Station #7

Depth

Mic Factor * 6.1648; 89.25 Concentration Factor 4

DIANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothera</i> **	44	Unid. Armoured Dinophyceae *	433	Unid. Chrysomonad	19
<i>Lyngbya</i>	168	<i>Ceratium hirundinella</i> p		Unid. Chrysophyte	3
<i>Merismopedia</i>	1			<i>Dinobryon sociale</i>	64
<i>Oscillatoria</i>	107			<i>D. bavaricum</i>	
<i>Aphanizomenon</i>	58	TOTAL →	433	<i>D. divergens</i>	
<i>Raphidiopsis</i>	45	CRYPTOPHYCEAE	μ^3	<i>Chrysochromulina parva</i>	27
<i>Promphosphaeria</i>	7	<i>Katablepharis</i>	1	<i>Mallomonas</i>	6
<i>Microcystis</i>	54	<i>Rhodomonas</i>	49	<i>Chrysosphaerella corona circumspina</i> / p	
<i>Coelosphaerium</i>	1	<i>Cryptomonas</i> **	242	<i>Spiniferomonas</i>	
		TOTAL →	292		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i> *	89		
		<i>Phacus</i>	58		
TOTAL →	485	TOTAL →	147	TOTAL →	119

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Tetrastrum</i>	1	<i>Synedra</i>	47	<i>Ciliate</i>	22.31
<i>Tetraëdron</i>	3	<i>Stephanodiscus</i>	2	<i>Amoeboid Protozoa</i>	22.31
<i>Microactinium</i>	7	<i>Cyclotella</i>	112	<i>Diffugia</i>	22.31
<i>Scenedesmus</i>	82	<i>Rhizosolenia</i>	3	<i>Keratella</i>	p
<i>Valoniopsis</i>	6	<i>Nitzschia</i>	8		
<i>Oocystis</i>	47	Unid. Diatom	1		
<i>Thalassiosira</i>	22	<i>Tabellaria fenestrata</i>	p		
<i>Micrococcus</i>	p	<i>Fragilaria crotonensis</i>	p		
<i>Kallickia</i>	2			TOTAL →	66.93
<i>Pediastrum duplex</i>	p				
<i>Chroococcoides</i>	10				
<i>Actinastrum</i>	p				
<i>Cosmarium</i>	9				
<i>Pediastrum simplex + P. tetras</i>	88				
<i>Madrigula</i>	1				
<i>Oocystis</i>	39				
<i>Actinosphaerium</i>	1				
<i>Francia</i>	32				
<i>Neochlamys</i>	2				
<i>Chlorodesmus</i>	8				
<i>Podatella</i>	5				
<i>Crucigenia tetrapedia + C. sp.</i>	8				
<i>Coelastrum</i>	29				
<i>Unid. Green Zoospore</i>	p				
<i>Moneraphidium</i>	10				
TOTAL →	412	TOTAL →	173		

REMARKS:

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2061 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1632

Municipality HARWICH TWP.
 Source Rondeau Bay L. Erie
 Station #10 Depth _____

Date Analysed July 31, 1985 Date Sampled July 26, 1984
 Enumeration Procedure 1, * 20x; ** 20x at 300x
 Mic Factor 178.50; ** 4.3154 Concentration Factor 4

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	63	Unid. Dinophyceae	** 167	<i>Dinobryon sociale</i>	25
<i>Raphidiopsis</i>	54	<i>Ceratium hirundinella</i>	p	Unid. Chrysomonad	20
<i>Gomphosphaeria</i>	6			Unid. Chrysophyte	4
<i>Oscillatoria</i>	15			<i>Chrysochromulina parva</i>	20
<i>Lyngbya</i>	114	TOTAL →	167	<i>Kephyrion/Pseudok.</i>	p
<i>Aphanizomenon</i>	22	CRYPTOPHYCEAE	μ^3		
<i>Chroococcus</i>	2	<i>Katabelepharis</i>	1		
<i>Microcystis</i>	10	<i>Rhodomonas</i>	5		
<i>Merismopedia</i>	1	<i>Cryptomonas</i>	p		
<i>Anabaena</i>	p	TOTAL →	6		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	30		
		<i>Phacus</i>	p		
TOTAL →	287	TOTAL →	30	TOTAL →	69

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Quadrigula</i>	4	<i>Synedra</i>	32	<i>Ciliate</i>	89.25
<i>Oocystis</i>	32	<i>Rhizosolenia</i>	8	<i>Kellicottia</i>	p
<i>Franceia</i>	1	<i>Cyclotella</i>	125	<i>Keratella</i>	p
<i>Nephroclamys</i>	6	<i>Nitzschia</i>	33	<i>Polyarthra</i>	p
Unid. Green Zoospore	1	<i>Stephanodiscus</i>	2		
<i>Pediastrum simplex</i>	* 75	<i>Melosira</i>	p		
<i>P. duplex</i> , <i>P. tetras</i>					
<i>Ankistrodesmus</i>	10			TOTAL →	89.25
<i>Actinastrum</i>	5				
<i>Treubaria</i>	2				
<i>Monoraphidium</i>	7				
<i>Schroederia</i>	6				
<i>Dictyosphaerium</i>	2				
<i>Chodatella</i>	18				
<i>Crucigenia tetrapedia</i> r.c. sp.	9				
<i>Coelastrum</i>	49				
<i>Gloeocystis</i>	30				
<i>Scenedesmus</i>	27				
<i>Chlamydomonas</i>	5				
<i>Tetradron</i>	2				
TOTAL →	291	TOTAL →	200		

REMARKS:

Chlorophyceae Also Present:

Microactinium
Mougeotia
Golenkinia
Closterium
Tetrastrum
Staurastrum

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

OR TOTAL CUBIC MICRONS PER ML

1050 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1783

Municipality HARWICH TWP.

Date Analysed July 30, 1985

Date Sampled Aug. 2, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 1/2 C, 2 radii

Station 7 Depth

Mic Factor 1/2 C 2.00, 89.25 $2 \times [1] =$ Concentration Factor 2

CYANOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
		μ^3						μ^3
<i>Lyngbya</i>		367	<i>Unid. Dinophyceae</i>		p	<i>Unid. Chrysomonad</i>		44
<i>Aphanothece</i>		51				<i>Salpingoete</i>		13
<i>Oscillatoria</i>		48				<i>Unid. Chrysophyte</i>		10
<i>Merismopedia</i>		3				<i>Chrysochromulina parva</i>		6
<i>Gomphosphaeria</i>		5	TOTAL →		—	<i>Chromulina</i>		1
<i>Microcystis</i>		1	CRYPTOPHYCEAE		μ^3	<i>Dinobryandivergens</i>		1
<i>Aphanizomenon</i>		42	<i>Rhodomonas</i>		1			
<i>Raphidiopsis</i>		31	<i>Cryptomonas</i>		p			
<i>Anabaena</i>		p						
			TOTAL →		1			
			EUGLENOPHYCEAE		μ^3			
			<i>Phacus</i>		55			
			<i>Euglena</i>	1/2 C	93			
TOTAL →		548	TOTAL →		148	TOTAL →		75
CHLOROPHYCEAE			BACILLARIOPHYCEAE			ZOOPLANKTON		
		μ^3			μ^3		No. Organisms per ML	
<i>Ankistrodesmus</i>		14	<i>Cyclotella</i>		57	<i>Ciliate</i>		44.63
<i>Scenedesmus</i>		63	<i>Synedra</i>		33	<i>Keratella</i>		p
<i>Pocystis</i>		17	<i>Stephanodiscus</i>		12	<i>Diffugia</i>		p
<i>Gloeocystis</i>		38	<i>Melosira</i>		p			
<i>Prucigenia sp. tetrapedia</i> }		12						
<i>Dictyosphaerium</i>		1						
<i>Monoraphidium</i>		4						
<i>Franceia</i>		5						
<i>Coelastrum</i>		5				TOTAL →		44.63
<i>Chodatella</i>		10						
<i>Micractinium</i>		1						
<i>Treubaria</i>		5						
<i>Mougeotia</i>		8						
<i>Chlamydomonas</i>		5						
<i>Pediastrum simplex, P. duplex, P. tetras</i>		p						
<i>Quadrigula</i>		p						
<i>Protophyccoccus</i>		p						
TOTAL →		188	TOTAL →		102			
TOTAL AREAL STANDARD UNITS PER ML								
TOTAL CUBIC MICRONS PER ML					1062 X 10 ³			

REMARKS:

SIGNED: C. Lea

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1784

Municipality HARWICH TWP.

Date Analysed July 29, 1985 Date Sampled Aug 2, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure **1, 2, *10, **20, **22 r

Station 10 Depth _____

Mic Factor 89.25 Concentration Factor 2 x F17 = 2

CYANOPHYCEAE		μ^3	DINOPHYCEAE		μ^3	CHRYSTOPHYCEAE		μ^3
<i>Lyngbya</i>		234	Unid. Dinophyceae	*	25	Unid. Chrysomonad		88
<i>Aphanothece</i>	**	63				Unid. Chrysophyte Cyst		3
<i>Gomphosphaeria</i>		6				Salpingoecce		6
<i>Oscillatoria</i>	*	90				Unid. Chrysophyte		8
<i>Chroococcus</i>		1	TOTAL →		25	Chrysochromulina parva		3
<i>Aphanizomenon</i>	*	15	CRYPTOPHYCEAE		μ^3			
<i>Microcystis</i>		16	<i>Katablepharis</i>		7			
<i>Merismopedia</i>		6	<i>Cryptomonas</i>		30			
<i>Raphidiopsis</i>		18	<i>Rhodomonas</i>		1			
<i>Anabaena</i>		p	TOTAL →		38			
			EUGLENOPHYCEAE		μ^3			
			<i>Phacus</i>	*	21			
			<i>Euglena</i>	**	96			
TOTAL →		449	TOTAL →		117	TOTAL →		108

CHLOROPHYCEAE		μ^3	BACILLARIOPHYCEAE		μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Oocystis</i>	*	26	<i>Cyclotella</i>		49	<i>Ciliate</i>	44.63
<i>Ankistrodesmus</i>		9	<i>Nitzschia</i>		20	<i>Diffugia</i>	44.63
<i>Tetradion</i>		1	<i>Synedra</i>		32	<i>Keratella</i>	p
<i>Glaucocystis</i>		58	<i>Stephanodiscus</i>		23		
<i>Nephrochlamys</i>		3	<i>Melosira</i>		p		
<i>Monoraphidium</i>		12					
<i>Schroederia</i>		5					
<i>Scenedesmus</i>		25				TOTAL →	89.26
<i>Coelastrum</i>		6					
<i>Pediastrum spp.</i>	**	32				REMARKS: <i>Pediastrum boryanum</i>	
<i>Crucigenia sp.</i>						<i>P. spp.</i> = <i>P. duplex</i>	
<i>C. tetrapedia</i>		7				<i>P. simplex</i>	
<i>Chodatella</i>		10					
<i>Chlamydomonas</i>		15					
<i>Cosmarium</i>		p					
<i>Francia</i>		p					
<i>Closterium</i>		p					
<i>Dictyosphaerium</i>		p					
<i>Botryococcus</i>		p					
TOTAL →		209	TOTAL →		124		

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1070 x 10³

SIGNED: C. Lee

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1802

Municipality HARWICH TWP. Date Analysed July 27, 1985 Date Sampled Aug 10, 1984
 Source Rondeau Bay L. Erie Enumeration Procedure 1, *x2, *x5, *22 radii
 Station 7 Depth _____ Mic Factor 178.50 Concentration Factor 2 x 17 = 2

DIANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanizomenon</i>	81	<i>Ceratium hirundinella</i> *	198	<i>Unid. Chrysoomonad</i>	59
<i>Lyngbya</i>	413	<i>Unid. Dinophyceae</i> *	217	<i>Chrysochromulina parva</i>	31
<i>Aphanotheca</i>	146			<i>Salpingoeca</i>	10
<i>Oscillatoria</i>	257			<i>Unid. Chrysophyte</i>	2
<i>Microcystis</i> *	43	TOTAL →	415	<i>Mallomonas</i>	p
<i>Chroococcus</i>	4	CRYPTOPHYCEAE	μ^3	<i>Dinobryon divergens</i>	p
<i>Raphidiopsis</i>	58	<i>Cryptomonas</i> **	286	<i>D. sociale</i>	p
<i>Gomphosphaeria</i>	4	<i>Rhodomonas</i>	24		
<i>Merismopedia</i>	1				
		TOTAL →	310		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i> *	172		
		<i>Phacus</i> *	105		
TOTAL →	1007	TOTAL →	277	TOTAL →	102
CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Chlamydomonas</i>	127	<i>Synedra</i>	88	<i>Ciliate</i>	89.25
<i>Monoraphidium</i>	15	<i>Cyclotella</i> **	202	<i>Diffugia</i>	p
<i>Floecystis</i>	92	<i>Stephanodiscus</i>	8	<i>Polyarthra</i>	p
<i>Ankistrodesmus</i>	4	<i>Nitzschia</i>	20	<i>Keratella</i>	p
<i>Franceia</i>	14	<i>Melosira</i>	p		
<i>Unid. Green Zoospore</i>	1				
<i>Coliella</i>	4				
<i>Trucigenia</i> sp. } <i>C. tetrapedia</i> }	26			TOTAL →	89.25
<i>Scenedesmus</i>	35				
<i>Rhodatella</i>	16				
<i>Golenkinia</i>	16				
<i>Pocystis</i>	35				
<i>Schroederia</i>	14				
<i>Quadrigula</i>	9				
<i>Tetraëdron</i>	13				
<i>Coelastrum</i>	18				
<i>Dictyosphaerium</i>	8				
TOTAL →	447	TOTAL →	318		
TOTAL AREAL STANDARD UNITS PER ML		2876 x 10 ³		REMARKS: Chlorophyceae also present: <i>Treubaria</i> <i>Mougeotia</i> <i>Staurastrum</i> <i>Botryococcus</i> <i>Pediastrum tetras</i> <i>P. simplex</i> <i>P. duplex</i> <i>Microactinium</i> <i>Cosmarium</i>	
TOTAL CUBIC MICRONS PER ML				SIGNED: <i>C. Lea</i>	

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1803

Municipality HARWICH TWP.Date Analysed July 24, 1985 Date Sampled Aug 10, 1984Source Rondeau Bay L. ErieEnumeration Procedure 1r, ** 5r, *15 radiiStation 10 Depth _____Mic Factor 178.50 Concentration Factor 2 x E17 = 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Lyngbya</i>	603	Unid. Dinophyceae *	383	<i>Chrysochromulina parva</i>	34
<i>Aphanothece</i>	599	<i>Ceratium hirundinella</i> p		Unid. Chrysomonad	176
<i>Raphidiopsis</i>	191			<i>Salpingoecce</i>	14
<i>Aphanizomenon</i>	57			Unid. Chrysophyte	6
<i>Aphanocapsa</i>	5	TOTAL →	383	<i>Bicoeca</i>	2
<i>Gamphosphaeria</i>	6	CRYPTOPHYCEAE	μ^3	<i>Dinobryon divergens</i>	33
<i>Merismopedia</i>	11	<i>Rhodomonas</i>	46	<i>D. sociale</i>	
<i>Oscillatoria</i>	159	<i>Cryptomonas</i> **	246	<i>Mallomonas</i>	15
<i>Microcystis</i>	13	<i>Katablepharis</i>	8		
<i>Chroococcus</i> p		TOTAL →	300		
		EUGLENOPHYCEAE	μ^3		
		<i>Trachelomonas</i>	p		
		<i>Euglena</i> *	666		
		<i>Phacus</i> *	47		
TOTAL →	1644	TOTAL →	713	TOTAL →	280

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Crucigenia</i> sp. }		<i>Nitzschia</i>	22	<i>Ciliate</i>	357.00
<i>C. tetrapedia</i> }	23	<i>Synedra</i>	113	<i>Polyarthra</i>	p
<i>Scenedesmus</i> spp	47	<i>Cyclotella</i>	361	<i>Diffugia</i>	p
<i>Chlamydomonas</i>	142	<i>Stephanodiscus</i>	14	<i>Kellicottia</i>	p
<i>Staurastrum</i> p		<i>S. binderanus</i>	p	<i>Keratella</i>	p
<i>Ankistrodesmus</i> p	9	<i>Melosira</i>	p		
<i>Nephrocladus</i> p	9	<i>Achnanthes</i>	p		
<i>Monoraphidium</i> p	9				
<i>Microactinium</i> p	183				
<i>Oocystis</i>					
<i>Tetraëdron</i>	2				
<i>Crucigenia tetrapedia</i> p					
<i>Gloeocystis</i>	121				
<i>Pandorina</i> p					
<i>Quadrigula</i>	5				
<i>Cosmarium</i> p					
<i>Dictyosphaerium</i> p	1				
<i>Botryococcus</i> p					
<i>Coelastrum</i>	40				
<i>Mougeotia</i> p					
<i>Schroederia</i> p	1				
<i>Pediastrum simplex</i> *					
<i>P. boryanum</i>	133				
<i>P. tetras, P. duplex</i>	16				
<i>Golenkinia</i>	p				
<i>Chodatella</i>	1				
Unid. Green Zoospore	p				
<i>Closterium</i> p					
<i>Treubaria</i> p					
TOTAL →	733	TOTAL →	510		

TOTAL →

357.00

REMARKS:

SIGNED: L. Lea

OR TOTAL CUBIC MICRONS PER ML

4563 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1930

Municipality HARWICH TWP.

Date Analysed July 9, 1985

Date Sampled Aug 22, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure *1r, 2r, **4r, **20r

Station 7 Depth

Mic Factor 89.25

2 x E17 =
Concentration Factor 2

DIATOMEACEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothece</i>	* 157	<i>Unid. Dinophyceae</i>	54	<i>Unid. Chrysomonad</i>	31
<i>Gyngbya</i>	232	<i>Ceratium hirundinella</i>	p	<i>Unid. Chrysophyte Cyst</i>	13
<i>Oscillatoria</i>	79			<i>Chrysochromulina parva</i>	40
<i>Perismopodia</i>	26			<i>Dinobryon</i>	7
<i>Raphidiopsis</i>	67	TOTAL →	54	<i>Unid. Chrysophyte</i>	6
<i>Goelosphaerium</i>	4	CRYPTOPHYCEAE	μ^3	<i>Mallomonas</i>	p
<i>Omphosphaeria</i>	1	<i>Rhodomonas</i>	22		
<i>Microcystis</i>	p	<i>Cryptomonas</i>	66		
<i>Thalassiosira</i>	p	<i>Katablepharis</i>	4		
<i>Aphanizomenon</i>	p	TOTAL →	92		
<i>Micrococcus</i>	p	EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	** 415		
		<i>Phacus</i>	p		
TOTAL →	566	TOTAL →	415	TOTAL →	97

PHYLLOPORPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Doecystis</i>	40	<i>Rhizosolenia</i>	** 33	<i>Ciliate</i>	133.88
<i>Staurastrum</i>	11	<i>Nitzschia</i>	** 56	<i>Vorticella</i>	p
<i>Monoraphidium</i>	11	<i>Synedra</i>	** 98	<i>Polyarthra</i>	p
<i>Gloeocystis</i>	45	<i>Cyclotella</i>	15	<i>Keratella</i>	p
<i>Leubaria</i>	5	<i>Stephanodiscus</i>	80	<i>Bosmina</i>	p
<i>Cosmarium</i>	9	<i>S. binderanus</i>	45	<i>Diffugia</i>	p
<i>Stratodrom</i>	8	<i>Cymatopleura</i>	** 49		
<i>Scenedesmus</i>	36	<i>Melosira</i>	p	TOTAL →	133.88
<i>Lucigenia tetrapedia</i>	2	<i>Achnanthes</i>	p		
<i>Ankistrodesmus</i>	5	<i>Navicula</i>	p		
<i>Closterium</i>	p	<i>Surirella</i>	p		
<i>Madrigula</i>	4				
<i>Microactinium</i>	p				
<i>Francia</i>	15				
<i>Coelastrum</i>	p				
<i>Chlamydomonas</i>	39				
<i>Chlorella</i>	p				
<i>Chroococcoidia</i>	1				
<i>Dictyosphaerium</i>	p				
<i>Chodatella quadriseta</i>	1				
<i>Diastrium simplex</i>	p				
<i>Diacyclops</i>	p				
TOTAL →	232	TOTAL →	376		

REMARKS:

SIGNED: C. Lee

TOTAL CUBIC MICRONS PER ML

1832 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-1931

Municipality HARWICH TWP.

Date Analysed July 17, 1985 Date Sampled Aug 22, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure *1, 2, **20x.

Station 10 Depth _____

Mic Factor 89.25 $2 \times 17 =$ Concentration Factor 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothece</i> *	189	<i>Unid. Dinophyceae</i> **	303	<i>Unid. Chrysomonad</i>	29
<i>Lyngbya</i>	215	<i>Ceratium hirundinella</i> p		<i>Chrysochromulina parva</i>	12
<i>Microcystis</i>	97			<i>Unid. Chrysophyte</i>	16
<i>Aphanocapsa</i>	13			<i>Mallomonas</i>	31
<i>Gomphosphaeria</i>	13	TOTAL →	303	<i>Dinobryon sociale</i>	17
<i>Merismopedia</i>	23	CRYPTOPHYCEAE	μ^3		
<i>Raphidiopsis</i>	25	<i>Rhodomonas</i>	44		
<i>Oscillatoria</i>	2	<i>Cryptomonas</i>	76		
		<i>Katablepharis</i>	3		
		TOTAL →	123		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i> **	197		
		<i>Phacus</i> **	16		
TOTAL →	577	TOTAL →	213	TOTAL →	105

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Scenedesmus</i> spp.	86	<i>Cymatopleura</i> **	65	<i>Ciliate</i>	89.25
<i>Franceia</i>	9	<i>Melosira</i>	60	<i>Diffugia</i>	p
<i>Unid. Green Zoospore</i>	3	<i>Rhizosolenia</i>	7	<i>Polyarthra</i>	p
<i>Gloeocystis</i>	12	<i>Nitzschia</i>	16	<i>Keratella</i>	p
<i>Pediastrum duplex</i>	16	<i>Cyclotella</i>	84	<i>Kellicottia</i>	p
<i>P. simplex</i> p		<i>Navicula</i>	11		
<i>Monoraphidium</i>	16				
<i>Chlamydomonas</i>	50	<i>Surirella</i> **	188		
<i>Nephrochlamys</i>	1	<i>Stephanodiscus</i>	9	TOTAL →	89.25
<i>Treubaria</i>	3	<i>Synedra</i>	58		
<i>Schroederia</i> p		<i>Stephanodiscus hideranus</i> p			
<i>Ankistrodesmus</i>	4				
<i>Tetraëdron</i> spp.	32				
<i>Crucigenia</i> sp. }					
<i>C. tetrapedia</i> }	17				
<i>Dictyosphaerium</i>	2				
<i>Coelastrum</i> p					
<i>Cosmarium</i>	39				
<i>Chodatella</i> p					
<i>Oocystis</i>	42				
<i>Staurastrum</i>	16				
<i>Quadrigula</i>	1				
TOTAL →	350	TOTAL →	498		

REMARKS:

SIGNED: C. Len

OR TOTAL CUBIC MICRONS PER ML

2169 X 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2149

Municipality HARWICH TWP.Source Rondeau Bay L. ErieStation 7 Depth _____Date Analysed July 4, 1985Date Sampled Aug 31, 1984Enumeration Procedure *50 fields; 1r, **4r, **7rMic Factor *742.3440; 178.50 Concentration Factor 3x17 = 3

DIATOMOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
<i>Aphanothece</i>	*	129	<i>Unid. Dinophyceae</i>	**	181	<i>Salpingoecce</i>		1
<i>Euglypta</i>		152				<i>Unid. Chrysomonad</i>		96
<i>Merismopedia</i>		7				<i>Unid. Chrysophyte Cyst</i>		13
<i>Raphidiopsis</i>		49				<i>Unid. Chrysophyte</i>		11
<i>Oscillatoria</i>		86	TOTAL →		181	<i>Mallomonas</i>		13
<i>Gomphosphaeria</i>		7	CRYPTOPHYCEAE			<i>Chrysochromulina parva</i>		43
<i>Aphanizomenon</i>	p		<i>Katablepharis</i>		2	<i>Dinobryon</i>		p
<i>Microcystis</i>	p		<i>Rhodomonas</i>		61			
			<i>Cryptomonas</i>		45			
			TOTAL →		108			
			EUGLENOPHYCEAE					
			<i>Euglena</i>	**	814			
			<i>Phacus</i>	p				
TOTAL →		430	TOTAL →		814	TOTAL →		177
CHLOROPHYCEAE			BACILLARIOPHYCEAE			ZOOPLANKTON		
<i>Scenedesmus</i>		55	<i>Synedra</i>		134	<i>Ciliate</i>		p
<i>Ankistrodesmus</i>		6	<i>Stephanodiscus</i>		72	<i>Trichocerca</i>		p
<i>Tetraedron</i>		4	<i>S. binderanus</i>		49			
<i>Cosmarium</i>		51	<i>Cyclotella</i>		25			
<i>Elakatothrix</i>		1	<i>Melosira</i>		44			
<i>Coelastrum</i>		87	<i>Nitzschia</i>	**	138			
<i>Monoraphidium</i>		16	<i>Coscinodiscus</i>		p			
<i>Schroederia</i>		6	<i>Cymatopleura</i>		p	TOTAL →		-
<i>Gloeocystis</i>		36	<i>Surirella</i>		p			
<i>Unid. Green Zoospore</i>		1	<i>Amphiprora ornata</i>		p			
<i>Chlamydomonas</i>		10						
<i>Eucygnia sp.</i>		8						
<i>E. tetrapedia</i>		p						
<i>Microactinium</i>		12						
<i>Oocystis</i>		p						
<i>Mougeotia</i>		p						
<i>Treubaria</i>		p						
<i>Pediastrum simplex</i>		p						
<i>P. boryanum</i>		p						
<i>Staurastrum</i>		p						
<i>Chodatella</i>		p						
TOTAL →		293	TOTAL →		462			

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2465 x 10³

REMARKS:

SIGNED: C. Lea

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2150

Municipality HARWICH TWP Date Analysed June 25, 1985 Date Sampled Aug. 31, 1984
 Source Rondeau Bay L. Erie Enumeration Procedure *50 fields; 1 radius
 Station 10 Depth Mic Factor *742.3440; 178.50 Concentration Factor 3

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothece</i> *	492	<i>Unid. Dinophyceae</i>	119	<i>Unid. Chrysophyte Cyst</i>	16
<i>Raphidiopsis</i>	119	<i>Ceratium hirundinella</i>	p	<i>Unid. Chrysomonad</i>	102
<i>Gomphosphaeria</i>	45			<i>Chrysochromulina parva</i>	49
<i>Aphanizomenon</i>	29			<i>Mallomonas</i>	24
<i>Lyngbya</i>	203	TOTAL →	119	<i>Unid. Chrysophyte</i>	8
<i>Merismopedia</i>	52	CRYPTOPHYCEAE	μ^3		
<i>Microcystis</i>	49	<i>Rhodomonas</i>	112		
<i>Chroococcus</i>	8	<i>Cryptomonas</i>	88		
<i>Oscillatoria</i>	63				
		TOTAL →	200		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	211		
TOTAL →	1060	TOTAL →	211	TOTAL →	199

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Cosmarium</i>	10	<i>Navicula</i>	20	<i>Amoeboid Protozoa</i>	59.50
<i>Monoraphidium</i>	18	<i>Synedra</i>	209	<i>Kellicottia</i>	p
<i>Tetraëdron</i>	6	<i>Nitzschia</i>	326	<i>Polyarthra</i>	p
<i>Ankistrodesmus</i>	5	<i>Cyclotella</i>	128		
<i>Treubaria</i>	32	<i>Stephanodiscus</i>	63		
<i>Coelastrum</i>	77	<i>Unid. Diatom</i>	47		
<i>Scenedesmus</i>	50	<i>Surirella</i>	p		
<i>Crucigenia tetrapedia</i>	7			TOTAL →	59.50
<i>Unid. Green Zoospore</i>	3				
<i>Gloeocystis</i>	98				
<i>Chlamydomonas</i>	9				
<i>Staurastrum</i>	20				
<i>Oocystis</i>	30				
<i>Pediastrum simplex</i> }					
<i>P. boryanum</i> }	173				
<i>Schroederia</i>	17				
<i>Franceia</i>	23				
<i>Chodatella</i>	1				
TOTAL →	579	TOTAL →	793		

REMARKS:

SIGNED: C. Lea

OR

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

3161 X 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2225

Municipality HARWICH TWP.

Date Analysed June 12, 1985

Date Sampled Sept. 7, 1984

Source Rondeau Bay L. Erie

Enumeration Procedure 1/2 c; 1r, * 3r

Station 7 Depth

Mic Factor 2.00; 178.50 Concentration Factor 3 x [17] = 3

CYANOPHYCEAE	μ^2	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanizomenon</i>	199	Unid. Dinophyceae	46	Unid. Chrysomonad	92
<i>Lyngbya</i>	177	<i>Ceratium hirundinella</i>	p	<i>Salpingoeca</i>	2
<i>Gomphosphaeria</i>	5			Unid. Chrysophyte Cyst	7
<i>Merismopedi</i>	12			Unid. Chrysophyte	2
<i>Oscillatoria</i>	* 226	TOTAL →	46	<i>Chrysochromulina parva</i>	2
<i>Raphidiopsis</i>	97	CRYPTOPHYCEAE	μ^3	<i>Dinobryon</i>	p
<i>Microcystis</i>	3	<i>Rhodomonas</i>	69		
<i>Aphanizomenon</i>	p	<i>Cryptomonas</i>	* 112		
		<i>Katablepharis</i>	2		
		TOTAL →	183		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	* 210		
		<i>Phacus</i>	22		
TOTAL →	719	TOTAL →	232	TOTAL →	105

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Crucigenia tetrapedia</i>	7	<i>Surirella</i>	1/2 c 416	<i>Diffugia</i>	59.50
<i>Ankistrodesmus</i>	28	<i>Synedra</i>	* 202	<i>Polyarthra</i>	p
<i>Scenedesmus</i>	56	<i>Stephanodiscus</i>	33	<i>Keratella</i>	p
<i>Closterium</i>	1	<i>S. binderanus</i>	56		
<i>Tetraedron</i>	18	<i>Nitzschia spp.</i>	* 383		
<i>Dictyosphaerium</i>	11	<i>Cyclotella</i>	5		
<i>Gloeocystis</i>	11	<i>Melosira</i>	25		
<i>Schroederia</i>	15	<i>Cymatopleura</i>	p	TOTAL →	59.50
<i>Coelastrum</i>	13				
<i>Pocystis</i>	7				
<i>Chodatella</i>	15				
<i>Cosmarium</i>	26				
<i>Monoraphidium</i>	11				
<i>Nephrochlamys</i>	15				
Unid. Green Zoospore	34				
<i>Staurastrum</i>					
<i>Franceia</i>	5				
TOTAL →	273	TOTAL →	1114		

REMARKS:

Also present: *Pediastrum simplex*
P. boryanum
Treubaria
Carteria
Mougeotia

SIGNED: C. Lee

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2672 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2226

Municipality HARWICH twp.

Source Rondeau Bay, L. Erie

Station 10 Depth

Date Analysed May 18, 1985

Date Sampled Sept. 7, 1984

Enumeration Procedure 1/2 C, 1, * 2 radii

Mic Factor 1/2 C 2.00, 178.50 Concentration Factor 3 x 17 = 3

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Oscillatoria</i>	271	Unid. Armoured Dinophyceae	146	Unid. Chrysophyte Cyst	15
<i>Raphidiopsis</i>	150	<i>Ceratium hirundinella</i>	p	<i>Chrysochromulina parva</i>	15
<i>Aphanizomenon</i>	143			Unid. Chrysomonad	118
<i>Lyngbya</i>	168			Unid. Chrysophyte	3
<i>Aphanothera</i>	139	TOTAL →	146		
<i>Gomphosphaeria</i>	12	CRYPTOPHYCEAE	μ^3		
<i>Merismopedia</i>	88	<i>Rhodomonas</i>	75		
<i>Chroococcus</i>	3	<i>Cryptomonas</i>	169		
<i>Coelosphaerium</i>	10	<i>Katablepharis</i>	17		
<i>Microcystis</i>	p	TOTAL →	261		
<i>Anabaena</i>	p	EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	1/2 C 49		
TOTAL →	984	TOTAL →	49	TOTAL →	151

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Closterium</i>	11	<i>Surirella</i>	1/2 C 599	<i>Ciliate</i>	238.00
<i>Quadrigula</i>	2	<i>Rhizosolenia</i>	69	<i>Diffugia</i>	p
<i>Treubaria</i>	21	<i>Navicula</i>	48	Unid. Rotifer	p
<i>Schroederia</i>	3	<i>Achnanthes</i>	3	<i>Polyarthra</i>	p
<i>Ankistrodesmus</i>	14	<i>Fragilaria crotonensis</i>	38	<i>Keratella</i>	p
<i>Nephrocladus</i>	6	<i>Stephanodiscus</i>	59		
<i>Chodatella</i>	78	<i>Synedra</i>	335		
<i>Tetradion</i>	19	<i>Nitzschia</i>	* 637	TOTAL →	238.00
<i>Coelastrum</i>	219	<i>Melosira</i>	23		
<i>Scenedesmus</i>	82	<i>Cyclotella</i>	35		
<i>Docystis</i>	23	Unid. Diatom	44		
<i>Dictyosphaerium</i>	p				
<i>Gloeocystis</i>	67				
<i>Francia</i>	p				
Unid. Green Zoospore	2				
<i>Koliella</i>	4				
<i>Cosmarium</i>	44				
<i>Pediastrum simplex</i>	* 165				
<i>P. tetras</i>	18				
<i>Monoraphidium</i>					
<i>Microactinium</i>					
TOTAL →	779	TOTAL →	1890		

REMARKS:

SIGNED: C. Liu

OR

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

4260 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2318

Municipality Harwich twp.Date Analysed May 13, 1985 Date Sampled Sept. 20, 1984Source Rondeau Bay, L. ErieEnumeration Procedure 1, & 3, ** 8 radiiStation 7 Depth _____Mic Factor 178.50 $3 \times [17] =$ Concentration Factor 3

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
Aphanizomenon	52	Unid. Armoured Dinophyceae *	171	Unid. Chrysomonad	69
Aphanothece	185	Ceratium hirundinella	p	Unid. Chrysophyte	3
Coelosphaerium	4			Chrysochromulina parva	67
Raphidiopsis	* 179			Dinobryon sociale	14
Chroococcus	18	TOTAL $\rightarrow$	171	D. divergens	
Microcystis	46	CRYPTOPHYCEAE	μ^3	Unid. Chrysophyte Cyst	7
Oscillatoria	635	Katablepharis	6		
Lyngbya	116	Rhodomonas	45		
Gomposphaeria	2	Cryptomonas	** 96		
Merismopedia	12	TOTAL $\rightarrow$	147		
Anabaena	p	EUGLENOPHYCEAE	μ^3		
		Euglena	* 80		
		Phacus	p		
TOTAL $\rightarrow$	1249	TOTAL $\rightarrow$	80	TOTAL $\rightarrow$	160

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
Koliella	3	Stephanodiscus	42	Unid. Protozoa	59.50
Chodatella ciliata } C. quadriseta }	21	Synedra	331	Amoeboid Protozoa	59.50
Unid. Green Zoospore	1	Navicula	18	Diffugia	p
Ankistrodesmus	10	Nitzschia	* 123	Ciliate	p
Monoraphidium	24	Melosira	40	Keratella	p
Tetrastrum	2	Achnanthes	3	Polyarthra	p
Microcystis	47	Cyclotella	2		
Franceja	25	Surirella	p	TOTAL $\rightarrow$	119.00
Microcystis	26	Amphiprora ornata	p		
Crucigenia tetrapedia	4	Cymatopleura	p		
Tetraedron	6	Tabellaria fenestrata	p		
Chroocleria	2	Fragilaria crotonensis	p		
Cosmarium	10	F. capucine	p		
Quadrigula	4				
Scenedesmus	42				
Dictyosphaerium	5				
TOTAL $\rightarrow$	232	TOTAL $\rightarrow$	559		

REMARKS:

Additional Chlorophyceae present:

Chlamydomonas
Staurastrum
Coelastrum
Pediastrum boryanum
P. simplex
P. duplex
Closterium

SIGNED: C. Lee~~TOTAL AREAL STANDARD UNITS PER ML~~

TOTAL CUBIC MICRONS PER ML

 2598×10^3

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2319

Municipality Harwich twp.

Date Analysed May 3, 1985

Date Sampled Sept. 20, 1984

Source Rondeau Bay, L. Erie

Enumeration Procedure WC, 1, #2 rad.

Station 10 Depth

Mic Factor 1.00, 178.50

Concentration Factor 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Oscillatoria</i>	553	Unid. Dinophyceae	80	Unid. Chrysomonad	45
<i>Aphanothece</i>	125	<i>Ceratium hirundinella</i>	p	<i>Dinobryon bavaricum</i>	53
<i>Chroococcus</i>	2			<i>D. sociale</i>	
<i>Lyngbya</i>	128			<i>Chrysochromulina parva</i>	17
<i>Gomposphaeria</i>	2	TOTAL →	80	Unid. Chrysophyte	1
<i>Coelosphaerium</i>	4	CRYPTOPHYCEAE	μ^3	Unid. Chrysophyte Cyst	7
<i>Raphidiopsis</i>	155	<i>Cryptomonas</i>	190		
<i>Merismopedia</i>	2	<i>Rhodomonas</i>	57		
<i>Aphanizomenon</i>	78	<i>Katablepharis</i>	2		
<i>Microcystis</i>	12	TOTAL →	249		
<i>Anabaena</i>	p	EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	x 162		
		<i>Phacus</i>	p		
TOTAL →	1061	TOTAL →	162	TOTAL →	123

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Nephrochlamys</i>	3	<i>Stephanodiscus</i>	WC 160	Amoeboid Protozoa	71.40
<i>Floecystis</i>	27	<i>Surirella</i>	WC 115	Polyarthra	p
<i>Ankistrodesmus</i>	31	<i>Stephanodiscus</i>	64	<i>Keratella</i>	p
<i>Coelastrum</i>	93	<i>Melosira</i>	x 134		
<i>Monoraphidium</i>	6	<i>Nitzschia</i>	118		
<i>Cosmarium</i>	p	<i>Synedra</i>	144		
<i>Staurastrum</i>	p	<i>Cyclotella</i>	34		
<i>Botryococcus</i>	2				
<i>Chlamydomonas</i>					
<i>Tetraëdron</i> spp.	17	Unid. Diatom	4	TOTAL →	71.40
<i>Oocystis</i>	45	<i>Gomphonema</i>	27		
<i>Scenedesmus</i> spp.	63	<i>Navicula</i>	6		
<i>Chodatella quadriseta</i>	1	<i>Tabellaria fenestrata</i>	p		
<i>Quadrigula</i>	1	<i>Asterionella formosa</i>	p		
<i>Crucigenia</i> sp. }	6	<i>Fragilaria crotonensis</i>	p		
<i>C. tetrapedia</i>		<i>Amphiprora ornata</i>	p		
<i>Mougeotia</i>	15	<i>Cymatopleura</i>	p		
<i>Pediastrum boryanum</i>	4	<i>Cocconeis</i>	p		
<i>Francelia</i>	17				
<i>Closterium</i>	7				
<i>Dictyosphaerium</i>	2				
<i>Schroederia</i>					
TOTAL →	349	TOTAL →	806		

REMARKS:

Very large amount of detritus
Also present: *Pediastrum simplex*
P. duplex

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2830 X/10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2396

Municipality Harwich twp.Date Analysed May 7, 1985Date Sampled Oct. 4, 1984Source Rondeau BayEnumeration Procedure 1/2 C, 1, & 2 radiiStation 7 Depth _____Mic Factor 1/2 C 2.00; 178.50 Concentration Factor 5

DIATOMOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
		μ^3						μ^3
<i>Merismopedia</i>		3	<i>Unid. Armoured Dinophyceae</i>	p		<i>Unid. Chrysomonad</i>		19
<i>Coelosphaerium</i>		13	<i>Ceratium hirundinella</i>	p		<i>Unid. Chrysophyte</i>		1
<i>Aphanothera</i>		56	<i>Gymnodinium</i>	p		<i>Unid. Chrysophyte Cyst</i>		3
<i>Somphosphaeria</i>		1				<i>Chrysochromulina parva</i>		24
<i>Synechocystis</i>		15	TOTAL →		-			
<i>Raphidiopsis</i>		1	CRYPTOPHYCEAE		μ^3			
<i>Oscillatoria</i>		3	<i>Rhodomonas</i>		93			
<i>Microcystis</i>	p		<i>Katablepharis</i>		2			
<i>Anabaena</i>	p		<i>Cryptomonas</i>	*	522			
<i>Chroococcus</i>	p		TOTAL →		617			
			EUGLENOPHYCEAE		μ^3			
			<i>Euglena</i>	*	11			
TOTAL →		92	TOTAL →		11	TOTAL →		47
CHLOROPHYCEAE			BACILLARIOPHYCEAE			ZOOPLANKTON		
		μ^3			μ^3		No. Organisms per ML	
<i>Monoraphidium</i>		6	<i>Stephanodiscus</i>	1/2 C	1481	<i>Ciliate</i>		p
<i>Pediastrum</i> spp.	*	59	<i>Stephanodiscus</i>		10	<i>Bosmina</i>		p
<i>Chlorella</i>	p		<i>Nitzschia</i>		13	<i>Polyarthra</i>		p
<i>Gloeocystis</i>		24	<i>Synedra</i>	*	40	<i>Diiflugia</i>		p
<i>Scenedesmus</i>		41	<i>Cyclotella</i>		102			
<i>Cosmarium</i>		8	<i>Surirella</i>		p			
<i>Rhodotella quadriseta</i>		1	<i>Melosira</i>		p			
<i>Chlamydomonas</i>		13	<i>Asterionella formosa</i>		p	TOTAL →		-
<i>Pediastrum</i>	*	111	<i>Tabellaria fenestrata</i>		p			
<i>Cocystis</i>		16	<i>Cymatopleura</i>		p			
<i>Quadrifida</i>	p		<i>Fragilaria capucinae</i>		p			
<i>Chroococcoidia</i>		1	<i>F. crotonensis</i>		p			
<i>Mougeotia</i>		26	<i>Coscinodiscus</i>		p			
<i>Tetradon</i>		6						
<i>Tetradon</i>		p						
<i>Closterium</i>		p						
<i>Crocogonia tetrapedia</i>		p						
<i>Tetradon</i>		p						
<i>Eudorina</i>		p						
TOTAL →		312	TOTAL →		1646			

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2725 x 10³

REMARKS:

Pediastrum spp. = *P. tetras*
P. duplex
P. simplex
P. boryanum

SIGNED: C. Len

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2397

Municipality Harwich twp Date Analysed April 30, 1985 Date Sampled Oct. 4, 1984
 Source Rondeau Bay, L. Erie Enumeration Procedure WC, 1, * 4 radii
 Station 10 Depth Mic Factor 10^6 , 178.50 Concentration Factor $2 \times \text{LID} = 2$

CYANOPHYCEAE		μ^3	DINOPHYCEAE		μ^3	CHRYSTOPHYCEAE		μ^3
Raphidiopsis		24	Unid. Dinophyceae		74	Chrysochromulina parva	126	
Lyngbya		52	Ceratium hirundinella		p	Unid. Chrysomonad	23	
Aphanothece		180				Unid. Chrysophyte	4	
Gomphosphaeria		9				Dinobryon bavaricum	p	
Merismopedia		2	TOTAL	→	74	Dinobryon divergens	p	
Aphanizomenon		9	CRYPTOPHYCEAE		μ^3			
Oscillatoria		21	Katablepharis		3			
Coelosphaerium		5	Cryptomonas	*	674			
Microcystis		p	Rhodomonas		95			
			TOTAL	→	772			
			EUGLENOPHYCEAE					
			Phacus		p			
			Euglena		p			
TOTAL	→	302	TOTAL	→	-	TOTAL	→	153
CHLOROPHYCEAE		μ^3	BACILLARIOPHYCEAE		μ^3	ZOOPLANKTON		No. Organisms per ML
Closterium		44	Stephanodiscus	wc	712	Ciliate		178.50
Koliella		4	Stephanodiscus		107	Rotifera - Polyanthra		p
Coelastrum	*	20	Synedra		83	- Lepadella		p
Chlamydomonas		1	Cyclotella		15	Diffugia		p
Crucigenia tetrapedia		6	Nitzschia		19			
Tetraedron		40	Melosira		36			
Microactinium		5	Asterionella formosa		p			
Monoraphidium		15	Tabellaria fenestrata		p	TOTAL	→	178.50
Tetrastrum		5	Fragilaria crotonensis		p			
Scenedesmus	*	77	F. capucine		p	REMARKS:		
Botryococcus		p	Surirella		p	Pediastrum tetras		
Docystis		30			p	P. duplex		
Gloeocystis		7				P. simplex		
Chodatella quadriseta		5						
Cosmarium		p						
Staurastrum		p						
Pediastrum spp.		p						
Schroederia		p						
Quadrigula		p						
Mougeotia		p						
TOTAL	→	259	TOTAL	→	972	SIGNED:	C. Lee	
TOTAL AREAL STANDARD UNITS PER ML			→			2532 x 10 ³		
OR TOTAL CUBIC MICRONS PER ML			→					

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2667

Municipality Harwich twp.

Date Analysed April 22, 1985

Date Sampled Oct. 25, 1984

Source Rondeau Bay, L. Erie

Enumeration Procedure WC, 1, *2r

Station 7 Depth

Mic Factor 1.00, 178.50 $\frac{L17 \times 5}{178.50} =$ Concentration Factor 5

DIATOMACEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^2
<i>Aphanothece</i>	32	Unid. Dinophyceae	*	<i>Chrysochromulina parva</i>	131
<i>Composphaeria</i>	2	<i>Ceratium hirundinella</i>	p	Unid. Chrysomonad	28
<i>Lyngbya</i>	1	<i>Gymnodinium</i>	p	Unid. Chrysophyte	1
<i>Coelosphaerium</i>	3			<i>Dinobryon divergens</i>	5
<i>Chroococcus</i>	p	TOTAL →	24	<i>D. sociale</i>	p
<i>Merismopedia</i>	p	CRYPTOPHYCEAE	μ^3		
<i>Anabaena</i>	p	<i>Cryptomonas</i>	*		
<i>Aphanizomenon</i>	p	<i>Rhodomonas</i>			
<i>Microcystis</i>	p	<i>Katablepharis</i>			
<i>Chroococcus</i>	p	TOTAL →	339		
<i>Raphidiopsis</i>	p	EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
		<i>Phacus</i>	p		
TOTAL →	38	TOTAL →	-	TOTAL →	165

PHYCOPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Scenedesmus</i>	44	<i>Stephanodiscus</i>	WC	<i>Ciliate</i>	71.40
<i>Microcystis</i>	13	<i>Stephanodiscus</i>		<i>Diffugia</i>	p
<i>Costrarium</i>	6	<i>Nitzschia</i>		<i>Keratella</i>	p
<i>Goelastrum</i>	*	<i>Synedra</i>		<i>Polyarthra</i>	p
<i>Actyosphaerium</i>	2	<i>Cyclotella</i>			
<i>Monoraphidium</i>	4	<i>Surirella</i>			
<i>Tetradron</i>	14	<i>Tabellaria fenestrata</i>			
<i>Gloeocystis</i>	9	<i>Fragilaria crotonensis</i>		TOTAL →	71.40
<i>Microactinium</i>	1	<i>F. capucine</i>			
<i>Crucigenia tetrapedia</i>	3	<i>Melosira</i>			
<i>Chlosterium</i>	7	<i>Cocconeis</i>			
<i>Schroederia</i>	6				
<i>Pediastrum simplex</i>	*				
<i>P. duplex</i>	p				
<i>Stougeotia</i>	p				
<i>Chodatella ciliata</i>	p				
<i>Staurastrum</i>	p				
<i>Chlamydomonas</i>	p				
TOTAL →	203	TOTAL →	612		

REMARKS:

SIGNED: C. Lee

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1381 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2668

Municipality Harwich twp.Date Analysed April 19, 1985 Date Sampled Oct. 25, 1984Source Rondeau Bay, L. Erie.Enumeration Procedure WC at [5]; 2, 4, **20xStation 10 Depth Mic Factor 1.00; 89.25 Concentration Factor 2

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothece</i>	103	<i>Gymnodinium</i> **	89	<i>Unid. Chrysomonad</i>	26
<i>Coelosphaerium</i>	6	<i>Unid. Dinophyceae</i>	26	<i>Unid. Chrysophyte</i>	10
<i>Raphidiopsis</i>	22			<i>Chrysochromulina parva</i>	97
<i>Gomphosphaeria</i>	7			<i>Dinobryon sociale</i>	36
<i>Microcystis</i> **	16	TOTAL →	115	<i>D. bavaricum</i>	
<i>Anabaena</i>	6	CRYPTOPHYCEAE	μ^3	<i>D. divergens</i>	
<i>Oscillatoria</i>	p	<i>Cryptomonas</i> *	632	<i>Bicoeca</i>	p
<i>Lyngbya</i>	p	<i>Rhodomonas</i>	113	<i>Mallomonas</i>	p
<i>Aphanizomenon</i>	p	<i>Katablepharis</i>	2		
		TOTAL →	747		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
		<i>Lepocinclis</i>	p		
TOTAL →	160	TOTAL →	-	TOTAL →	169

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Gloeocystis</i>	38	<i>Stephanodiscus</i> WC	315	<i>Ciliate</i>	44.63
<i>Crucigenia quadrata</i> }	11	<i>Stephanodiscus</i>	18	<i>Cyclops</i>	p
<i>C. tetrapetala</i> }		<i>Cyclotella</i>	23	<i>Bosmina</i>	p
<i>Scenedesmus</i> spp.	86	<i>Synedra</i>	27	<i>Keratella</i>	p
<i>Monoraphidium</i>	12	<i>Rhizosolenia</i>	3	<i>Polyarthra</i>	p
<i>Closterium</i>	31	<i>Nitzschia</i>	11		
<i>Coelastrum</i> **	157	<i>N. acicularis</i>	4		
<i>Chodatella</i> sp.	p	<i>Fragilaria capucine</i>	p		
<i>Chodatella quadriseta</i>	3	<i>F. crotonensis</i>	p		
<i>Ankistrodesmus</i>	1	<i>Surirella</i>	p		
<i>Tetraëdron</i>	11	<i>Melosira</i>	p		
<i>Oocystis</i>	55	<i>Asterionella formosa</i>	p		
<i>Tetrastrum</i>	p	<i>Coscinodiscus</i>	p		
<i>Cosmarium</i>	12	<i>Tabellaria fenestrata</i>	p		
<i>Staurastrum</i>	p				
<i>Unid. Green Zoospore</i>	2				
<i>Nephrocystium</i> **	6				
<i>Mougeotia</i> **	71				
<i>Schroederia</i>	4				
<i>Elakatothrix</i>	p				
<i>Pediastrum</i> spp.	p				
<i>Microactinium</i>	p				
<i>Quadrigula</i>	p				
<i>Dictyosphaerium</i>	p				
TOTAL →	500	TOTAL →	401		

REMARKS: for whole chamber count
Concentration = $5 \times [5] = [3]$ *Pediastrum boryanum*
P. tetras
P. simplex
*P. duplex*SIGNED: C. Lia

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2092 x 10³

LANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

84-2891

Municipality Harwich twp.Date Analysed April 17, 1985 Date Sampled Nov. 22, 1984Source Rondeau Bay, L. ErieEnumeration Procedure 2, *4, *20 radii; wcStation 7 Depth _____Mic Factor 89.25; ^{wc} 1.00 Concentration Factor 2

DIANOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
	μ^3			μ^3			μ^3	
Aphanothera	16		Unid. Armoured Dinophyceae *	80		Unid. Chrysomonad	19	
Amphosphaeria	1					Unid. Chrysophyte Cyst	15	
Rhabdoderma	p					Chrysochromulina parva	14	
Perismopodia	p					Stelexomonas	1	
Chroococcus	p		TOTAL →	80		Dinobryon	p	
Phanizomenon	p		CRYPTOPHYCEAE	μ^3				
Oscillatoria	p		Cryptomonas **	709				
			Rhodomonas	184				
			Katablepharis	18				
			TOTAL →	911				
			EUGLENOPHYCEAE					
TOTAL →	17		TOTAL →	-		TOTAL →	49	
CHLOROPHYCEAE			BACILLARIOPHYCEAE			ZOOPLANKTON		
	μ^3			μ^3			No. Organisms per ML	
Monoraphidium	35		Stephanodiscus ^{small}	97		Ciliate	44.63	
Ceystis	5		Stephanodiscus ^{large} wc	370		Diffugia	p	
Glaucocystis	58		S. binderanus	p				
Gougeotia	20		Cyclotella	45				
Senedermus	29		Surirella	50				
Pediastrum boryanum *	8		Navicula	4				
P. tetras			Asterionella Formosa	43				
P. duplex	p							
Microactinium	3		Synedra	13		TOTAL →	44.63	
Podatella quadriseta	2		Fragilaria Capucine	124	wc			
Trucigenia tetrapedia	p		F. crotonensis			REMARKS:		
Cladastrium	p		Nitzschia	p		Large amount of detritus		
Gosterium	p		Tabellaria fenestrata	p				
Schroederia	p							
Pediaëdron	p							
Staurastrum	p							
TOTAL →	160		TOTAL →	746		SIGNED: <u>C. Lee</u>		
TOTAL CUBIC MICRONS PER ML				1963 x 10 ³				

Phytoplankton Data 1985

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-247

Municipality Harwich twp Date Analysed Dec. 5, 1985 Date Sampled Feb. 20, 1985
 Source Rondeau Bay L. Erie Enumeration Procedure 2, * 8 r
 Station 7 Depth Mic Factor 89.25 Concentration Factor 5 x [4] = 20

DINOPHYCEAE			CHRYSTOPHYCEAE		
	μ^3			μ^3	
<i>Merismopedia</i>	p		<i>Unid. Chrysomonad</i>		12
<i>Oscillatoria</i>	p		<i>Chrysochromulina parva</i>		6
			<i>Bicoeca</i>		1
			<i>Mallomonas</i>		3
TOTAL →		56			
CRYPTOPHYCEAE					
	μ^3				
<i>Rhodomonas</i>		12			
<i>Cryptomonas</i>		5			
<i>Katablepharis</i>	p				
TOTAL →		17			
EUGLENOPHYCEAE					
<i>Phaeus</i>	p				
TOTAL →		-	TOTAL →		22
CHLOROPHYCEAE			BACILLARIOPHYCEAE		
	μ^3			μ^3	
<i>Monoraphidium</i>	12		<i>Cyclotella</i>	19	
<i>Micractinium</i>	p		<i>Stephanodiscus</i>	7	
<i>Thodotella quadriseta</i>	p		<i>Melosira</i>	p	
<i>Koliella</i>	p		<i>Nitzschia acicularis</i>	p	
<i>Chlamydomonas</i>	2		<i>Synedra</i>	1	
<i>Gloeocystis</i>	1		<i>Asterionella formosa</i>	p	
<i>Guigenia</i>	p				
<i>Cenedesmus</i>	1				
<i>Tetrastrum</i>	p				
<i>Quadrigula</i>	p				
TOTAL →		16	TOTAL →		27
TOTAL AREAL STANDARD UNITS PER ML					
TOTAL CUBIC MICRONS PER ML			138 x 10 ³		

REMARKS:

SIGNED: C. Lea

PLANKTON ANALYSIS

FILE NUMBER

SAMPLE NUMBER

5-0

85-248

Municipality Harwich twp.

Date Analysed Jan. 6, 1986 Date Sampled Feb. 20, 1985

Source Rondeau Bay L. Erie

Enumeration Procedure 2, * 5 r

Station 10 Depth 1

Mic Factor 89.25 $5 \times 247 =$ Concentration Factor 20

[illegible]

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-405

Municipality Harwich twp.Date Analysed Jan. 7, 1986 Date Sampled April 16, 1985Source Rondeau Bay L. ErieEnumeration Procedure 1, *12rStation 7 Depth _____Mic Factor 178.50 $5 \times 17 =$ Concentration Factor 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Lyngbya</i>	4	Unid. Dinophyceae	x 458	Unid. Chrysomonad	98
<i>Phormidium</i>	24			<i>Salpingoecia</i>	1
<i>Gomphosphaeria</i>	2			<i>Mallomonas</i>	12
<i>Aphanothece</i>	1			<i>Kephyrien / Pseudok.</i>	2
<i>Aphanizomenon</i>	p	TOTAL →	458	<i>Chrysochromulina parva</i>	4
<i>Oscillatoria</i>	p	CRYPTOPHYCEAE	μ^3	<i>Dinobryon</i>	p
		<i>Rhodomonas</i>	108		
		<i>Cryptomonas</i>	54		
		<i>Katablepharis</i>	2		
		TOTAL →	164		
		EUGLENOPHYCEAE			
		<i>Phacus</i>	p		
		<i>Euglena</i>	p		
TOTAL →	31	TOTAL →	-	TOTAL →	117

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Chodatella</i>	20	<i>Stephanodiscus</i>	965	<i>Ciliate</i>	107.10
<i>Glaeocystis</i>	11	<i>S. binderanus</i>	* 65	<i>Polyarthra</i>	p
<i>Scenedesmus</i>	9	<i>Cyclotella</i>	399	Immature Copepod	p
<i>Chlamydomonas</i>	31	<i>Nitzschia</i>	3	<i>Brachionus</i>	p
<i>Monoraphidium</i>	9	<i>Rhizosolenia</i>	4	<i>Diffugia</i>	p
<i>Staurastrum</i>	p	<i>Synedra</i>	65		
<i>Coelastrum</i>	p	<i>Coscinodiscus</i>	246		
<i>Quadrigula</i>	p	<i>Melosira</i>	* 99	TOTAL →	107.10
<i>Docystis</i>	p	<i>Diatoma elongatum</i>	36		
<i>Tetraëdron</i>	p	<i>Gomphonema</i>	37		
<i>Mougeotia</i>	p	<i>Fragilaria crotonensis</i>	p		
		<i>F. capucine</i>	p		
		<i>Tabellaria fenestrata</i>	p		
		<i>Asterionella formosa</i>	p		
		<i>Navicula</i>	p		
		<i>Cocconeis</i>	p		
TOTAL →	80	TOTAL →	1919		

REMARKS:

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

OR TOTAL CUBIC MICRONS PER ML

2769 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-406

Municipality Harwich twp.
 Source Rondeau Bay h. Erie
 Station 10 Depth

Date Analysed Jan. 10, 1986 Date Sampled Apr. 16, 1985Enumeration Procedure 1, * 20rMic Factor 178.505 x C13:
Concentration Factor 5

CYANOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
	μ^3			μ^3			μ^3	
<i>Aphanothece</i>	p		<i>Unid. Dinophyceae</i>	*	245	<i>Unid. Chryseomonad</i>		109
<i>Gomphosphaeria</i>	2					<i>Mallomonas</i>		53
<i>Lyngbya</i>	4					<i>Chrysochromulina parva</i>		8
<i>Phormidium</i>	p					<i>Dinobryon</i>		4
			TOTAL →		245			
			CRYPTOPHYCEAE					
				μ^3				
			<i>Rhodomonas</i>		30			
			<i>Cryptomonas</i>		57			
			<i>Katablepharis</i>		1			
			TOTAL →		88			
			EUGLENOPHYCEAE					
			<i>Euglena</i>		p			
TOTAL →		6	TOTAL →		-	TOTAL →		174
CHLOROPHYCEAE	μ^3		BACILLARIOPHYCEAE	μ^3		ZOOPLANKTON		No. Organisms per ML
<i>Monoraphidium</i>	20		<i>Cyclotella</i>	306		<i>Ciliate</i>		71.40
<i>Chlamydomonas</i>	38		<i>Stephanodiscus</i>	1583		<i>Difflugia</i>		p
<i>Koliella</i>	2		<i>S. binderanus</i>	p				
<i>Gloeocystis</i>	8		<i>Gomphonema</i>	35				
<i>Chodatella quadriseta</i>	1		<i>Synedra</i>	18				
<i>Quadrigula</i>	4		<i>Nitzschia</i>	1				
<i>Scenedesmus</i>	22		<i>Rhizosolenia</i>	p				
<i>Oocystis</i>	11		<i>Coscinodiscus</i>	p		TOTAL →		71.40
<i>Schroederia</i>	1		<i>Asterionella formosa</i>	p		REMARKS:		
<i>Closterium</i>	19		<i>Fragilaria crotonensis</i>	p				
<i>Coelastrum</i>	p		<i>F. capucine</i>	p				
<i>Micractinium</i>	p		<i>Diatoma elongatum</i>	p				
<i>Tetrastrum</i>	p		<i>Tabellaria fenestrata</i>	p				
<i>Tetraedron</i>	p		<i>Melosira</i>	p				
<i>Staurastrum</i>	p		<i>Surirella</i>	p				
<i>Mougeotia</i>	p		<i>Cocconeis</i>	p				
TOTAL →		126	TOTAL →		1943	SIGNED: <u>C. Lee</u>		
TOTAL AREAL STANDARD UNITS PER ML			→					
OR TOTAL CUBIC MICRONS PER ML			→					
								2582 x 10 ³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-568

Municipality Harwich twp
 Source Rondeau Bay, L. Erie
 Station 7 Depth _____

Date Analysed Jan 13, 1986 Date Sampled May 7, 1985

Enumeration Procedure 2r ; 1/2 C at 300x

Mic Factor 89.25, $\frac{1}{2}^c$ 2.00 Concentration Factor $3 \times 517 = 3$

ANOPHYCEAE		μ^3	DINOPHYCEAE		μ^3	CHRYSPHYCEAE		μ^3
Aphanizomenon		6	Unid. Dinophyceae		6	stelexomonas		1
Composphaeria		2	Gymnodinium		p	Chrysochromulina parva		44
Aphanothece		2				Unid. Chrysomonad		59
Microcystis		p				stelexomonas		p
Thormidium		p	TOTAL →		6	Chrysolykos skujai		1
Raphidiopsis		p	CRYPTOPHYCEAE		μ^3	Dinobryon sociale		15
			Rhodomonas		85	Bicoeca		p
			Katablepharis		14	Mallomonas		p
			Cryptomonas		89			
			TOTAL →		188			
			EUGLENOPHYCEAE					
			Phacus		p			
			Euglena		p			
TOTAL →		10	TOTAL →		-	TOTAL →		120
CHLOROPHYCEAE		μ^3	BACILLARIOPHYCEAE		μ^3	ZOOPLANKTON		No. Organisms per ML
Monoraphidium		15	Stephanodiscus		1/2 C 764	Diffugia		59.50
Quadrigula		3	Stephanodiscus		272	Ciliate		29.75
Plamydomonas		8	S. binderanus		p	Immature Copepoda		p
Scenedesmus		33	Synedra		71	Keratella		p
Microcystis		16	Diatoma elongatum		20			
Chodatella sp. + C. quadriseta		6	Asterionella formosa		18			
Diastrium		2	Cyclotella		31			
Docystis		10	Nitzschia		4	TOTAL →		
Microactinium		7	Surirella		p	REMARKS:		
Diastrium tetras		1	Tabellaria fenestrata		p			
P. boryanum		p	Gyrosigma		p			
P. simplex		p	Fragilaria capucine		p			
P. duplex		p	Melosira		p			
P. augoetia		p	Coscinodiscus		p			
Closterium		p	Fragilaria crotonensis		p			
Koliella		p						
Dictyosphaerium		p						
Tricigenia tetrapedia		p						
Coelastrum		p						
Actinastrum		p						
Staurostrum		p						
TOTAL →		101	TOTAL →		1180	SIGNED: <i>C. Lee</i>		
TOTAL AREA STANDARD UNITS PER ML			→		1605 x 10 ³			
TOTAL CUBIC MICRONS PER ML								

MOE 0899 6/82

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-569

Municipality Rondeau Bay Harwich twp.
Source Rondeau Bay, L. Erie
Station 10 Depth _____

Date Analysed Jan. 14, 1986 Date Sampled May 7, 1985
Enumeration Procedure 1, * 3, ** 6 r
Mic Factor 178.50 $3 \times 17 =$ Concentration Factor 3

CYANOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
<i>Aphanotheca</i>		3	<i>Unid. Dinophyceae</i>		38	<i>Chrysochromulina parva</i>		78
<i>Microcystis</i>		1	<i>Gymnodinium</i>		p	<i>Dinobryon sociale</i>	*	110
<i>Gomphosphaeria</i>		2				<i>Unid. Chrysomonad</i>		246
<i>Oscillatoria</i>		6				<i>Mallomonas</i>	*	55
<i>Aphanizomenon</i>		p	TOTAL	→	38	<i>Stelethomonas</i>		1
<i>Phormidium</i>		p	CRYPTOPHYCEAE		μ ³	<i>Salpingoeca</i>		4
			<i>Cryptomonas</i>	**	465	<i>Bicoeca</i>		p
			<i>Rhodomonas</i>		68	<i>Synura</i>		p
			<i>Katablepharis</i>		14			
			TOTAL	→	547			
			EUGLENOPHYCEAE		μ ³			
			<i>Euglena</i>		22			
			<i>Phacus</i>		p			
TOTAL	→	12	TOTAL	→	22	TOTAL	→	494
CHLOROPHYCEAE		μ ³	BACILLARIOPHYCEAE		μ ³	ZOOPLANKTON		No. Organisms per ML
<i>Scenedesmus</i>	*	56	<i>Stephanodiscus</i>		318	<i>Ciliate</i>		59.50
<i>Monoraphidium</i>		31	<i>Nitzschia</i> sp. }		13	<i>Polarthra</i>		p
<i>Chodatella</i> sp. }		5	<i>N. acicularis</i> }		169	<i>Keratella</i>		p
<i>C. quadriseta</i>			<i>Cyclotella</i>	*	38	<i>Diffugia</i>		p
<i>Chlamydomonas</i>		48	<i>Diatoma elongatum</i>		34			
<i>Oocystis</i>		6	<i>Synedra</i>		p			
<i>Pediastrum tetras</i>		17	<i>Fragilaria crotonensis</i>		p			
<i>P. duplex</i>		p	<i>F. capucine</i>		p			
<i>Actinastrum</i>		7	<i>Asterionella formosa</i>		p	TOTAL	→	59.50
<i>Coelastrum</i>		2	<i>Coscinodiscus</i>		p			
<i>Gloeocystis</i>		25	<i>Melosira</i>		p			
<i>Microactinium</i>		15	<i>Stephanodiscus binderanus</i>		p			
<i>Tetraedron</i>		3	<i>Tabellaria fenestrata</i>		p			
<i>Staurastrum</i>		31						
<i>Closterium</i>		p						
<i>Oedogonium</i>		p						
<i>Crucigenia tetrapedia</i>		p						
<i>Dictyosphaerium</i>		p						
<i>Schroederia</i>		p						
TOTAL	→	246	TOTAL	→	572			
TOTAL AREAL STANDARD UNITS PER ML			1931 x 10 ³			SIGNED: <u>C. Lee</u>		
OR TOTAL CUBIC MICRONS PER ML								

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-753

Municipality Harwich twp

Date Analysed Jan. 15, 1986 Date Sampled May 27, 1985

Source Rondeau Bay L. Erie

Enumeration Procedure 1, *10r

Station 7 Depth _____

Mic Factor 178.50 Concentration Factor 3

DIATOMACEAE		μ ³	DINOPHYCEAE			CHRYSTOPHYCEAE		μ ³
Aphanothece	25		Unid. Dinophyceae	p		Unid. Chrysomonad	111	
Perismopodia	1					Chrysochromulina parva	213	
Oscillatoria	18					Kephyrion / Pseudok.	p	
Gomphosphaeria	2					Dinobryon sociale	9	
Synghya	p		TOTAL →		-			
			CRYPTOPHYCEAE		μ ³			
			Cryptomonas	x	165			
			Katablepharis		18			
			Rhodomonas		69			
			TOTAL →		252			
			EUGLENOPHYCEAE		μ ³			
			Euglena	x	7			
			Phacus		p			
TOTAL →		46	TOTAL →		7	TOTAL →		
CHLOROPHYCEAE		μ ³	BACILLARIOPHYCEAE		μ ³	ZOOPLANKTON		
Scenedesmus	21		Stephanodiscus		79	Ciliate	119.00	
Gloeoecystis	21		Nitzschia		14	D. flagellata	59.50	
Pinnophidium	5		Synedra		38	Keratella	p	
Schroederia	2		Cyclotella		2			
Staurastrum	2		Coscinodiscus		p			
Micractinium	2		Fragilaria capucinae		p			
Podatella ciliata	24		Asterionella formosa		p			
C. quadrifida						TOTAL →		
Pocystis	37					178.50		
Belastrum	4					REMARKS:		
Trebouaria	p					Chlorophyceae also present:		
Quadrifida	p					Crucigenia tetrapedia		
Cosmarium	p					Closterium		
Chlamydomonas	p					Staurastrum		
Staurastrum	p					SIGNED: C. Lea		
Dictyosphaerium	p							
Pediastrum simplex	p							
P. tetras	p							
P. boryanum	p							
TOTAL →		118	TOTAL →		133			
TOTAL AREAL STANDARD UNITS PER ML			TOTAL CUBIC MICRONS PER ML		889 x 10 ³			

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-754

Municipality Rondeau Bay Harwich Twp.
Source L. Erie
Station 10 Depth

Date Analysed Jan. 17, 1986 Date Sampled May 27, 1985
Enumeration Procedure 1, *10, **20r
Mic Factor 178.50 $3 \times [17] =$ Concentration Factor 3

CYANOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
<i>Aphanothece</i>		19	<i>Unid. Dinophyceae</i>		p	<i>Chrysochromulina parva</i>		110
<i>Gomphosphaeria</i>		4				<i>Unid. Chrysomonad</i>		188
<i>Merismopedia</i>		2						
<i>Oscillatoria</i>		p						
			TOTAL →		-			
			CRYPTOPHYCEAE		μ3			
			<i>Rhodomonas</i>		26			
			<i>Cryptomonas</i>	**	75			
			<i>Katablepharis</i>		2			
			TOTAL →		103			
			EUGLENOPHYCEAE					
			<i>Euglena</i>		p			
			<i>Phacus</i>		p			
TOTAL →		25	TOTAL →		-	TOTAL →		298
CHLOROPHYCEAE			BACILLARIOPHYCEAE			ZOOPLANKTON		
		μ3			μ3			No. Organisms per ML
<i>Scenedesmus</i>		34	<i>Stephanodiscus</i>		78	<i>Keratella</i>		59.50
<i>Monoraphidium</i>		14	<i>Cyclotella</i>		26	<i>Diffugia</i>		p
<i>Oocystis</i>		20	<i>Nitzschia</i>		9	<i>Ciliate</i>		p
<i>Gloeocystis</i>		14	<i>Synedra</i>		27			
<i>Chlamydomonas</i>		20	<i>Fragilaria capucine</i>	*	33			
<i>Cosmarium</i>		40	<i>Stephanodiscus binderanus</i>		p			
<i>Chodatella quadrifeta</i>		7	<i>Tabellaria fenestrata</i>		p			
<i>Closterium</i>	**	13				TOTAL →		59.50
<i>Pediastrum tetras</i>		13						
<i>Actinastrum</i>		3						
<i>Microactinium</i>		2						
<i>Schroederia</i>		p						
<i>Staurastrum</i>		p						
<i>Pediastrum duplex</i>		p						
<i>P. simplex</i>		p						
<i>Tetraedron</i>		p						
<i>Coelastrum</i>		p						
TOTAL →		180	TOTAL →		173			
TOTAL AREAL STANDARD UNITS PER ML			TOTAL CUBIC MICRONS PER ML			REMARKS:		
			779 x 10 ³			Chlorophyceae also present : <i>Crucigenia tetrapedia</i> <i>Chodatella ciliata</i> <i>Oedogonium</i>		
						SIGNED: C. Lea		
						MOE 0899 6/82		

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-995

Municipality Rondeau Bay Harwich twp.

Date Analysed Jan. 23, 1986 Date Sampled June 17, 1985

Source Lake Erie

Enumeration Procedure 1, *4, *8 r

Station 7 Depth _____

Mic Factor 178.50 $5 \times 10^3 =$ Concentration Factor 5

DIATOMEACEAE		μ^3	DINOPHYCEAE			CHRYSTOPHYCEAE		μ^3
<i>Merismopedia</i>		10	<i>Ceratium hirundinella</i>		p	<i>Unid. Chrysomonad</i>		16
<i>Phanerotheca</i>		21	<i>Unid. Dinophyceae</i>		p	<i>Chrysochromulina parva</i>		11
<i>Gomphosphaeria</i>		7				<i>Dinobryon</i>		p
<i>Pyngbya</i>		p				<i>Mallomonas</i>		p
TOTAL →			TOTAL →		-			
			CRYPTOPHYCEAE		μ^3			
			<i>Rhodomonas</i>		59			
			<i>Cryptomonas</i>	**	382			
TOTAL →			TOTAL →		441			
			EUGLENOPHYCEAE		μ^3			
			<i>Phacus</i>	*	9			
			<i>Euglena</i>		p			
TOTAL →		38	TOTAL →		9	TOTAL →		27
CHLOROPHYCEAE		μ^3	BACILLARIOPHYCEAE		μ^3	ZOOPLANKTON		No. Organisms per ML
<i>Chloocystis</i>		91	<i>Stephanodiscus</i>		79	<i>Keratella</i>		p
<i>Ankistrodesmus</i>		3	<i>Cyclotella</i>		12	<i>Polyarthra</i>		p
<i>Nostrium</i>	*	30	<i>Surirella</i>	*	10	<i>Diffugia</i>		p
<i>Schroederia</i>		7	<i>Nitzschia</i>		3	<i>Immature Copepoda</i>		p
<i>Coelastrum</i>		4	<i>Synedra</i>		7			
<i>Oocystis</i>		134	<i>Tabellaria fenestrata</i>		p			
<i>Monoraphidium</i>		2	<i>Fragilaria crotonensis</i>		p			
<i>Pediastrum duplex</i>	}	37	<i>Asterionella formosa</i>		p	TOTAL →		-
<i>P. tetras</i>								
<i>P. simplex</i>		p						
<i>Chodatella ciliata</i>		18						
<i>Scenedesmus</i>		6						
<i>Crucigenia tetrapedia</i>		3						
<i>Nephrochlamys</i>		p						
<i>Geminella</i>		p						
<i>Quadrigula</i>		p						
<i>Cosmarium</i>		p						
TOTAL →		335	TOTAL →		111			

REMARKS:

Chlorophyceae Also Present:
Tetraëdron
Micractinium
Dictyosphaerium
Staurostrum

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

961x10³

MOE 0899 6/82

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-996

Municipality Rondeau Bay Harwich twp.

Date Analysed Jan. 28, 1986 Date Sampled June 17, 1985

Source Lake Erie

Enumeration Procedure 1r, * 5 r

Station 10 Depth _____

Mic Factor 178.50 $5 \times 17 =$ Concentration Factor 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Gomphosphaeria</i>	40	<i>Unid. Dinophyceae</i>	21	<i>Unid. Chryseomonad</i>	42
<i>Merismopedia</i>	11			<i>Chrysochromulina parva</i>	21
<i>Aphanotheca</i>	101			<i>Dinobryon sociale</i>	10
<i>Aphanizomenon</i>	7			<i>Mallomonas</i>	7
<i>Oscillatoria</i>	2	TOTAL $\rightarrow$	21		
<i>Chroococcus</i>	p	CRYPTOPHYCEAE	μ^3		
		<i>Cryptomonas</i>	* 334		
		<i>Rhodomonas</i>	81		
		<i>Katablepharis</i>	17		
		TOTAL $\rightarrow$	432		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
		<i>Phacus</i>	p		
TOTAL $\rightarrow$	161	TOTAL $\rightarrow$	-	TOTAL $\rightarrow$	80

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Oocystis</i>	515	<i>Synedra</i>	35	<i>Diffugia</i>	71.40
<i>Chodatella ciliata</i> }	* 63	<i>Cyclotella</i>	10	<i>Ciliate</i>	35.70
<i>C. quadrisetosa</i> }		<i>Nitzschia</i>	31	<i>Cyclops</i>	p
<i>Tetraedron</i>	1	<i>Fragilaria capucine</i>	* 84	<i>Keratella</i>	p
<i>Gloeocystis</i>	119	<i>Stephanodiscus</i>	39		
<i>Pediastrum boryanum</i>	12	<i>Melosira</i>	p		
<i>P. simplex</i>	p	<i>Fragilaria crotonensis</i>	p		
<i>P. duplex</i>	p	<i>Tabellaria fenestrata</i>	p		
<i>Tetrastrum</i>	1	<i>Surirella</i>	p		
<i>Coelastrum</i>	20	<i>Asterionella formosa</i>	p		
<i>Scenedesmus</i>	* 77	<i>Coscinodiscus</i>	p		
<i>Dictyosphaerium</i>	7				
<i>Chlamydomonas</i>	9				
<i>Ankistrodesmus</i>	4				
<i>Closterium</i>	89				
<i>Monoraphidium</i>	9				
<i>Crucigenia tetrapedia</i>	5				
<i>Schroederia</i>	p				
TOTAL $\rightarrow$	931	TOTAL $\rightarrow$	199	TOTAL $\rightarrow$	107.10

REMARKS:

Chlorophyceae also present:
Cosmarium
Quadrigula
Staurastrum
Oedogonium

SIGNED: C. Lee

TOTAL AREAL STANDARD UNITS PER ML $\rightarrow$ 1824x10³
 OR TOTAL CUBIC MICRONS PER ML

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1098

Municipality Rondeau Bay - Harwich twp.
 Source Lake Erie
 Station 7 Depth

Date Analysed Feb. 7, 1986 Date Sampled June 27, 1985
 Enumeration Procedure 1/2 C; WC; 1r, **4r, *8r
 Mic Factor 1.00; 2.00, 178.50 Concentration Factor 5

DIANOPHYCEAE	μ^3	DINOPHYCEAE		CHRYSTOPHYCEAE	μ^3
<i>Gomphosphaeria</i>	5	Unid. Dinophyceae	p	Unid. Chrysomonad	13
<i>Phanerotheca</i>	105	<i>Ceratium hirundinella</i>	p	<i>Chrysochromulina parva</i>	23
<i>Merismopedia</i>	12			<i>Dinobryon divergens</i>	8
<i>Chroococcus</i>	p			<i>D. bavaricum</i>	
<i>Microcystis</i>	p	TOTAL →	-		
<i>Anabaena</i>	p	CRYPTOPHYCEAE	μ^3		
		<i>Rhodomonas</i>	5		
		<i>Cryptomonas</i>	* 187		
		<i>Katablepharis</i>	p		
		TOTAL →	192		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
		<i>Phacus</i>	p		
TOTAL →	122	TOTAL →	-	TOTAL →	44

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Urocystis</i>	** 219	<i>Stephanodiscus</i> sp.	1/2 C 1006	<i>Keratella</i>	35.70
<i>Plosterium</i>	39	<i>Fragilaria crotonensis</i>	WC 64	<i>Diffugia</i>	p
<i>Scenedesmus</i>	14	<i>F. capucine</i>		<i>Ciliate</i>	p
<i>Crucigenia tetrapedia</i>	2	<i>Stephanodiscus</i> sp.	4	<i>Polyarthra</i>	p
<i>Chloocystis</i>	100	<i>Cyclotella</i>	6	<i>Immature Copepoda</i>	p
<i>Cosmarium</i>	4	<i>Nitzschia</i>	7		
<i>Chlamydomonas</i>	24	<i>Synedra</i>	4		
<i>Chodatella ciliata</i>	* 98	<i>Tabellaria fenestrata</i>	* 14	TOTAL →	35.70
<i>Quadrigula</i>	1	<i>Surirella</i>	p		
<i>Monoraphidium</i>	1	<i>Asterionella formosa</i>	p		
<i>Coelastrum</i>	44	<i>Coscinodiscus</i>	p		
<i>Tetraëdron</i>	3	<i>Amphiprora ornata</i>	p		
<i>Schroederia</i>	1				
<i>Staurastrum</i>	* 66				
<i>Dictyosphaerium</i>	p				
<i>Nephrochlamys</i>	p				
TOTAL →	616	TOTAL →	1105		

REMARKS:

Chlorophyceae also present:
Pediastrum boryanum
P. duplex
P. simplex
Crucigenia sp.
Ankistrodesmus

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2079X10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1099

Municipality Rondeau Bay Harwich twp.
 Source Lake Erie
 Station 10 Depth _____

Date Analysed Feb. 10, 1986 Date Sampled June 27, 1985
 Enumeration Procedure WC; 1r, * 2r, * 4r, * 20r
 Mic Factor 1.00; 178.50 ^{WC} 5 x C13 = Concentration Factor 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE		CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	128			<i>Mallomonas</i>	5
<i>Merismopedia</i>	6			<i>Chrysochromulina parva</i>	27
<i>Chroococcus</i>	5			<i>Unid. Chrysomonas</i>	23
<i>Gomphosphaeria</i>	12			<i>Dinobryon divergens</i>	11
<i>Anabaena</i>	p	TOTAL →	—		
<i>Raphidiopsis</i>	p	CRYPTOPHYCEAE	μ^3		
<i>Lyngbya</i>	p	<i>Rhodomonas</i>	6		
		<i>Katablepharis</i>	2		
		<i>Cryptomonas</i>	11		
		TOTAL →	19		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
		<i>Phacus</i>	p		
TOTAL →	151	TOTAL →	—	TOTAL →	66

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Schroederia</i>	7	<i>Stephanodiscus sp</i>	WC 351	<i>Ciliate</i>	p
<i>Gloeocystis</i>	* 59	<i>Asterionella formosa</i>	** 19	<i>Diffugia</i>	p
<i>Closterium</i>	1	<i>Fragilaria crotonensis</i>	*E 29	<i>Polyarthra</i>	p
<i>Docystis</i>	** 178	<i>F. capucine</i>	p	<i>Keratella</i>	p
<i>Monoraphidium</i>	1	<i>Stephanodiscus sp.</i>	4		
<i>Chodatella ciliata</i>	* 137	<i>Synedra</i>	12		
<i>C. quadriseta</i>		<i>Nitzschia</i>	2		
<i>Scenedesmus</i>	12	<i>Cyclotella</i>	p	TOTAL →	—
<i>Quadrigula</i>	3	<i>Melosira</i>	p		
<i>Crucigenia tetrapedia</i>	3	<i>Surirella</i>	p		
<i>Chlamydomonas</i>	9	<i>Tabellaria fenestrata</i>	p		
<i>Ankistrodesmus</i>	1				
<i>Coelastrum</i>	29				
<i>Tetradron</i>	p				
<i>Cosmarium</i>	p				
<i>Dictyosphaerium</i>	p				
TOTAL →	440	TOTAL →	417		

REMARKS:

Chlorophyceae
 Also present:

Pediastrum duplex
P. boryanum
P. simplex
Staurostrum

SIGNED: C. Lea

TOTAL CUBIC MICRONS PER ML

1093 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1317

Municipality Harwich Twp, Rondeau BayDate Analysed Feb. 11, 1986 Date Sampled July 15, 1985Source L. ErieEnumeration Procedure WC; *1r, 2r, *6r, *20rStation 7 Depth _____Mic Factor WC 1.00; 89.25 5 x 17 = Concentration Factor 5

DIATOMEACEAE		μ^3	DINOPHYCEAE		μ^3	CHRYSTOPHYCEAE		μ^3
<i>Aphanizthece</i>	**	83	<i>Ceratium hirundinella</i>	WC	162	<i>Unid. Chrysophyte</i>		p
<i>Amphispheeria</i>		10	<i>Diplopsalis</i>		p	<i>Mallomonas</i>		2
<i>Merismopedia</i>		7	<i>Unid. Dinophyceae</i>		p	<i>Chromulina</i>		p
<i>Naabaena</i>		2				<i>Chrysochromulina parva</i>		3
<i>Microcystis</i>		3	TOTAL →		162	<i>Unid. Chrysomonad</i>		1
<i>Chroococcus</i>		p	CRYPTOPHYCEAE		μ^3	<i>Dinobryon divergens</i>		p
			<i>Cryptomonas</i>		42			
			<i>Katablepharis</i>		1			
			<i>Rhodomonas</i>		4			
			TOTAL →		47			
			EUGLENOPHYCEAE		μ^3			
			<i>Euglena</i>	**	91			
			<i>Phacus</i>		p			
TOTAL →		105	TOTAL →		91	TOTAL →		6

CHLOROPHYCEAE		μ^3	BACILLARIOPHYCEAE		μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Oocystis</i>		719	<i>Stephanodiscus sp.</i>	**	74	<i>Unid. Copepoda</i>	p
<i>Gloeocystis</i>		14	<i>Surirella</i>		12	<i>Polyarthra</i>	p
<i>Nephrocystium</i>		3	<i>Nitzschia</i>		3	<i>Diffugia</i>	p
<i>Crucigenia sp.?</i>			<i>Stephanodiscus sp.</i>		6	<i>Unid. Rotifera</i>	p
<i>C. tetrapedia</i>		11	<i>Cyclotella</i>		6	<i>Keratella</i>	p
<i>Isosmarium</i>	**	51	<i>Fragilaria crotonensis</i>		p	<i>Trichocerca</i>	p
<i>Closterium</i>	*	31	<i>Synedra</i>		p	<i>Bosmina</i>	p
<i>Pediastrum</i>	*	325				TOTAL →	—
<i>Ankistrodesmus</i>		p	<i>Gyrosigma</i>		p		
<i>Cenedesmus</i>		24	<i>Coscinodiscus</i>		p		
<i>Chlamydomonas</i>		11	<i>Amphiproa ornata</i>		p		
<i>Monoraphidium</i>		3					
<i>Rhodatella</i>		p					
<i>Franceia</i>		p					
<i>Tetraëdron</i>		p					
<i>Botryococcus</i>		p					
<i>Staurastrum</i>		p					
TOTAL →		1192	TOTAL →		101		

REMARKS:

Chlorophyceae also present:

*Pediastrum simplex**P. duplex**P. boryanum*

SIGNED:

C. Lea

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1704 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1318

Municipality Harwich Twp, Rondeau Bay
 Source Lake Erie
 Station 10 Depth _____

Date Analysed Feb. 12, 1986 Date Sampled July 15, 1985
 Enumeration Procedure WC; 1r, * 4r
 Mic Factor 10^6 ; 1.00; 178.50 Concentration Factor 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Phormidium</i>	3	<i>Ceratium hirundinella</i>	224	<i>Mallomonas</i>	32
<i>Aphanotheca</i>	153	Unid. Dinophyceae	* 197	<i>Chrysochromulina parva</i>	21
<i>Gomphosphaeria</i>	74	<i>Diplopsalis</i>	p	Unid. Chrysomonad	26
<i>Anabaena</i>	* 69			<i>Dinobryon sociale</i>	6
<i>Aphanizomenon</i>	4	TOTAL →	421		
<i>Oscillatoria</i>	4	CRYPTOPHYCEAE	μ^3		
<i>Microcystis</i>	12	<i>Rhodomonas</i>	12		
<i>Merismopedia</i>	3	<i>Katablepharis</i>	5		
<i>Chroococcus</i>	54	<i>Cryptomonas</i>	82		
<i>Raphidiopsis</i>	9	TOTAL →	99		
		EUGLENOPHYCEAE			
		<i>Euglena</i>			
TOTAL →	385	TOTAL →	-	TOTAL →	85

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Oocystis</i>	860	<i>Fragilaria crotonensis</i>	WC 193	<i>Ciliate</i>	p
<i>Coelastrum</i>	* 399	<i>F. capucine</i>		<i>Diiflugia</i>	p
<i>Quadrigula</i>	1	<i>Stephanodiscus</i> sp.	WC 419	Immature Copepoda	p
<i>Closterium</i>	13	<i>Asterionella formosa</i>	7	<i>Keratella</i>	p
<i>Chodatella ciliata</i>	56	<i>Synedra</i>	13	<i>Polyarthra</i>	p
<i>Scenedesmus</i>	93	<i>Stephanodiscus</i> sp.	11		
<i>Ankistrodesmus</i>	1	<i>Nitzschia</i>	72		
<i>Monoraphidium</i>	3	<i>Cyclotella</i>	15	TOTAL →	-
<i>Schroederia</i>	2	<i>Navicula</i>	29		
<i>Gloeocystis</i>	31	<i>Surirella</i>	* 78		
<i>Chlamydomonas</i>	2	<i>Amphiprora ornata</i>	p		
<i>Pediastrum simplex</i>	} * 124	<i>Gyrosigma</i>	p		
<i>P. duplex</i>		<i>Tabellaria fenestrata</i>	p		
<i>P. boryanum</i>					
<i>Crucigenia</i> sp. }	6				
<i>C. tetrapedia</i>					
<i>Tetrastrum</i>	p				
<i>Nephrocystium</i>	p				
TOTAL →	1591	TOTAL →	837		

REMARKS:

Chlorophyceae also present:

Pandorina
Actinastrum
Staurastrum
Botryococcus
Cosmarium

SIGNED:

A. Lee

OR

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

3418x10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1408

Municipality Harwich Twp.
 Source Rondeau Bay
 Station 7 Depth

Date Analysed Feb. 13, 1986 Date Sampled July 30, 1985
 Enumeration Procedure 15 * 2r, ** 20r
 Mic Factor 178.50 $5 \times 10^3 =$ Concentration Factor 5

DIATOMOPHYCEAE		μ^3	DINOPHYCEAE		μ^3	CHRYSTOPHYCEAE		μ^3
<i>Gomposphaeria</i>		44	<i>Ceratium hirundinella</i> **		41	<i>Chrysochromulina parva</i>		35
<i>Merismopedia</i>		17	Unid. Dinophyceae		9	Unid. Chrysoomonad		21
<i>Aphanothoece</i>		75	<i>Diplopsalis</i>		p	Unid. Chrysophyte		2
<i>Coelosphaerium</i>		2	<i>Gymnodinium</i>		p	<i>Mallomonas</i>		7
<i>Oscillatoria</i>	*	35	TOTAL →		50	<i>Dinobryon sociale</i>		8
<i>Microcystis</i>		5	CRYPTOPHYCEAE		μ^3			
<i>Anabaena</i>	*	87	<i>Katablepharis</i>		7			
<i>Raphidiopsis</i>		p	<i>Rhodomonas</i>		7			
<i>Chroococcus</i>		p	<i>Cryptomonas</i>		100			
<i>Aphanizomenon</i>		p	TOTAL →		114			
			EUGLENOPHYCEAE					
			<i>Euglena</i>		p			
			<i>Phacus</i>		p			
TOTAL →		265	TOTAL →		-	TOTAL →		73

CHLOROPHYCEAE		μ^3	BACILLARIOPHYCEAE		μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Coelastrum</i>	*	473	<i>Synedra</i>		30	<i>Ciliate</i>	107.10
<i>Floecystis</i>	*	58	<i>Cyclotella</i>		17	<i>Polyarthra</i>	35.70
<i>Oocystis</i>	*	293	<i>Stephanodiscus</i>		10	<i>Trichocerca</i>	p
<i>Pucigenia tetrapedia</i> + sp.		13	<i>Nitzschia</i>		8	<i>Keratella</i>	p
<i>Monoraphidium</i>		8	<i>Surirella</i>		p	<i>Diffugia</i>	p
<i>Scenedesmus</i>		16	<i>Fragilaria crotonensis</i>		p		
<i>Posmarium</i>		16					
<i>Franeella</i>		9				TOTAL →	142.80
<i>Chlamydomonas</i>		18					
<i>Nephrochlamys</i>		13					
<i>Tetraëdron</i>		1					
<i>Dictyosphaerium</i>		11					
<i>Microactinium</i>		1					
<i>Pediastrum simplex</i>	*	15					
<i>P. duplex</i>		p					
<i>Closterium</i>		p					
<i>Quadrigula</i>		p					
TOTAL →		945	TOTAL →		65		
TOTAL AREAL STANDARD UNITS PER ML			TOTAL CUBIC MICRONS PER ML			1512 x 10 ³	

REMARKS:

Chlorophyceae also present:
Geminella
Staurostrum

SIGNED: C. Lee

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1409

Municipality Harwich Twp
Source Rondeau Bay, L. Erie
Station 10 Depth

Date Analysed Feb. 17, 1986 Date Sampled July 30, 1985
Enumeration Procedure WC; 1r, #3r, #6r
Mic Factor w^e 1.00; 178.50 Concentration Factor 5x E17: 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Merismopedia</i>	41	<i>Ceratium hirundinella</i> wc	153	<i>Chrysochromulina parva</i>	41
<i>Aphanothece</i>	61	Unid. Dinophyceae	p	Unid. Chrysophyte Cyst	2
<i>Gomphosphaeria</i>	13	<i>Diplopsalis</i>	p	Unid. Chryomonad	14
<i>Microcystis</i>	17			<i>Mallomonas</i>	5
<i>Lyngbya</i>	p	TOTAL →	153	<i>Dinobryon divergens</i>	p
<i>Aphanizomenon</i>	p	CRYPTOPHYCEAE	μ^3		
<i>Anabaena</i>	p	<i>Rhodomonas</i>	52		
<i>Chroococcus</i>	p	<i>Cryptomonas</i> *	248		
		<i>Katablepharis</i>	4		
		TOTAL →	304		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	32		
		<i>Phacus</i>	p		
TOTAL →	132	TOTAL →	32	TOTAL →	62

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Oocystis</i> **	392	<i>Cyclotella</i>	33	<i>Ciliate</i>	178.50
<i>Chlamydomonas</i>	11	<i>Stephanodiscus</i>	3	<i>Diffugia</i>	p
<i>Crucigenia</i> sp. }	7	<i>Nitzschia</i>	2	<i>Daphnia</i>	p
<i>C. tetrapedia</i> }		<i>Synedra</i>	2	<i>Polyarthra</i>	p
<i>Schroederia</i>	2	<i>Surirella</i> *	32		
<i>Coelastrum</i> *	297	<i>Fragilaria crotonensis</i>	p		
<i>Ankistrodesmus</i>	p	<i>F. capucine</i>	p		
Unid. Green Zoospore	1	<i>Coscinodiscus</i>	p		
<i>Closterium</i>	6			TOTAL →	178.50
<i>Scenedesmus</i>	24				
<i>Gloeocystis</i>	21				
<i>Pediastrum simplex</i> *	96				
<i>P. duplex</i>	p				
<i>Nephrocystium</i>	p				
<i>Nephrochlamys</i>	p				
<i>Staurastrum</i>	p				
<i>Dictyosphaerum</i>	p				
TOTAL →	857	TOTAL →	72		

REMARKS:

Chlorophyceae also present:
Cosmarium
Quadrigula
Botryococcus

SIGNED: C. Lee

OR

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1612x10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1578

Municipality Harwich Twp
 Source Rondeau Bay L. Erie
 Station 7 Depth _____

Date Analysed Feb. 18, 1986 Date Sampled Aug 13, 1985
 Enumeration Procedure WC, *20r at 300x; 1r, **5r
 Mic Factor 1.00, *4.3154, 178.50 Concentration Factor 5

DIATOMACEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Merismopedia</i>	7	<i>Ceratium hirundinella</i>	* 57	<i>Chrysochromulina parva</i>	78
<i>Phanerothoe</i>	150	Unid. Dinophyceae	6	Unid. Chrysomonad	81
<i>Gomphosphaeria</i>	8			Unid. Chrysophyte cyst	9
<i>Microcystis</i>	27			<i>Dinobryon sociale</i>	8
<i>Aphanizomenon</i>	43	TOTAL →	63	<i>D. bavaricum</i>	
<i>Anabaena</i>	19	CRYPTOPHYCEAE	μ^3	<i>Chromulina</i>	1
<i>Scillatoria</i>	5	<i>Rhodomonas</i>	33	<i>Salpingoeca</i>	2
<i>Lyngbya</i>	7	<i>Katablepharis</i>	7	<i>Mallomonas</i>	4
<i>Chroococcus</i>	6	<i>Cryptomonas</i>	** 145		
<i>Raphidiopsis</i>	p	TOTAL →	185		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	* 65		
		<i>Phacus</i>	p		
TOTAL →	272	TOTAL →	65	TOTAL →	183

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Cosmarium</i>	* 70	<i>Stephanodiscus</i> sp.	WC 466	Ciliate	35.70
<i>Microcystis</i>	** 93	<i>Fragilaria crotonensis</i>	* 155	Actinopoda	p
<i>Crucigenia tetrapedia</i>	3	<i>Tabellaria fenestrata</i>	* 91	Diffugia	p
<i>Chlamydomonas</i>	134	<i>Coscinodiscus</i>	* 102	Polyarthra	p
<i>Microcystis</i>	** 35	<i>Surirella</i>	* 41		
<i>Coelastrum</i>	** 26	<i>Cyclotella</i>	10		
<i>Tetraëdon</i>	2	<i>Synedra</i>	25		
<i>Monoraphidium</i>	p	<i>Rhizosolenia</i>	2	TOTAL →	
<i>Actyosphaerium</i>	5	<i>Stephanodiscus</i> sp.	7		
<i>Schroederia</i>	9	<i>Nitzschia</i>	5		
<i>Cenedesmus</i>	6	<i>Melosira</i>	p		
<i>Glosterium</i>	11	<i>Gyrodinium</i>	p		
<i>Pediastrum simplex</i>	36	<i>Amphiprora ornata</i>	p		
<i>Monatella ciliata</i>	p				
<i>Microactinium</i>	p				
<i>Quadrigula</i>	p				
TOTAL →	430	TOTAL →	904		

REMARKS:

Chlorophyceae also present

Pediastrum tetras

P. duplex

Botryococcus

Nephrocystium

Nephrochlamys

Eudorina

Geminella

SIGNED:

C. Lee

~~TOTAL AREA STANDARD UNITS PER ML~~

TOTAL CUBIC MICRONS PER ML

2102 X 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1579

Municipality Rondeau Bay Harwich twp
Source L. Erie
Station 10 Depth

Date Analysed Feb. 19, 1986 Date Sampled Aug 13, 1985
Enumeration Procedure 1r, * 2r
Mic Factor 178.50 $5 \times 17 =$ Concentration Factor 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothece</i>	172	<i>Unid. Dinophyceae</i>	10	<i>Chrysochromulina parva</i>	123
<i>Oscillatoria</i>	28			<i>Unid. Chrysomonad</i>	39
<i>Merismopedia</i>	4			<i>Uroglena</i>	1
<i>Lyngbya</i>	5			<i>Dinobryon divergens</i>	p
<i>Anabaena</i>	7	TOTAL $\rightarrow$	10		
<i>Raphidiopsis</i>	13	CRYPTOPHYCEAE	μ^3		
<i>Microcystis</i>	3	<i>Katablepharis</i>	23		
<i>Gomphosphaeria</i>	7	<i>Cryptomonas</i>	44		
<i>Phanizomenon</i>	5	<i>Rhodomonas</i>	16		
<i>Chroococcus</i>	p	TOTAL $\rightarrow$	83		
		EUGLENOPHYCEAE	μ^3		
		<i>Phacus</i>	67		
		<i>Euglena</i>	p		
TOTAL $\rightarrow$	244	TOTAL $\rightarrow$	67	TOTAL $\rightarrow$	163

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Oocystis</i>	88	<i>Synedra</i>	118	<i>Ciliate</i>	107.10
<i>Chlamydomonas</i>	29	<i>Stephanodiscus</i>	6	<i>Diffugia</i>	p
<i>Chodatella ciliata</i>	8	<i>Surirella</i>	* 83	<i>Keratella</i>	p
<i>Dictyosphaerium</i>	7	<i>Cyclotella</i>	11	<i>Polyarthra</i>	p
<i>Schroederia</i>	5	<i>Nitzschia</i>	* 173	<i>Vorticella</i>	p
<i>Monoraphidium</i>	5	<i>Navicula</i>	13		
<i>Gloeocystis</i>	10	<i>Attheya</i>	p		
<i>Koliella</i>	1	<i>Tabellaria fenestrata</i>	p	TOTAL $\rightarrow$	107.10
<i>Coelastrum</i>	21	<i>Fragilaria crotonensis</i>	p		
<i>Pediastrum simplex</i>	* 104	<i>F. capucine</i>	p		
<i>P. boryanum</i>	p	<i>Coscinodiscus</i>	p		
<i>Quadrigula</i>	1				
<i>Scenedesmus</i>	8				
<i>Nephrocystium</i>	24				
<i>Closterium</i>	7				
<i>Crucigenia tetrapedia + sp.</i>	7				
<i>Botryococcus</i>	p				
TOTAL $\rightarrow$	325	TOTAL $\rightarrow$	404		

REMARKS:

Chlorophyceae also present:

Nephrochlamys
Cosmarium
Actinastrum
Staurastrum

SIGNED:

C. Lee

TOTAL AREAL STANDARD UNITS PER ML
OR
TOTAL CUBIC MICRONS PER ML

1296×10^3

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1908

Municipality Rondeau Bay Harwich twpDate Analysed Feb. 20, 1986 Date Sampled Sept. 3, 1985Source Lake ErieEnumeration Procedure 1r, * 2rStation 7 Depth _____Mic Factor 178.50 Concentration Factor 5

DIATOMOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	466	<i>Unid. Dinophyceae</i>	35	<i>Unid. Chrysomonad</i>	27
<i>Merismopedia</i>	15			<i>Chrysochromulina parva</i>	175
<i>Lyngbya</i>	69			<i>Unid. Chrysophyte Cyst</i>	2
<i>Chroococcus</i>	7			<i>Uroglena</i>	10
<i>Microcystis</i>	8	TOTAL →	35	<i>Dinobryon sociale</i>	p
<i>Gomphosphaeria</i>	6	CRYPTOPHYCEAE	μ^3		
<i>Scillatoria</i>	51	<i>Katablepharis</i>	54		
<i>Aphanizomenon</i>	102	<i>Rhodomonas</i>	7		
<i>Chaobaea</i>	2	<i>Cryptomonas</i>	54		
<i>Raphidiopsis</i>	19	TOTAL →	115		
		EUGLENOPHYCEAE			
		<i>Phacus</i>	p		
		<i>Euglena</i>	p		
TOTAL →	745	TOTAL →	-	TOTAL →	214

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Guaiardia tetrapedia</i>	1	<i>Nitzschia</i>	117	<i>Ciliate</i>	35.70
<i>Guadrigula</i>	1	<i>Cyclotella</i>	42	<i>Diffugia</i>	p
<i>Monoraphidium</i>	9	<i>Synedra</i>	55	<i>Kellicottia</i>	p
<i>Gloeocystis</i>	39	<i>Surirella</i>	49	<i>Keratella</i>	p
<i>Coelastrum</i>	5	<i>Rhizosolenia</i>	37		
<i>Pediastrum simplex</i>	4	<i>Stephanodiscus</i>	3		
<i>Alamydomonas</i>	32	<i>Fragilaria capucine</i>	6		
<i>Oocystis</i>	66	<i>F. crotonensis</i>	p	TOTAL →	35.70
<i>Cenedesmus</i>	16	<i>Melosira</i>	p		
<i>Unid. Green Zoospore</i>	1	<i>Navicula</i>	p		
<i>Guadrigula</i>	3	<i>Amphiprora ornata</i>	p		
<i>Tetraedron</i>	4	<i>Tabellaria fenestrata</i>	p		
<i>Closterium</i>	9	<i>Coscinodiscus</i>	p		
<i>Kistrodesmus</i>	p				
<i>Schroederia</i>	p				
TOTAL →	190	TOTAL →	309		

REMARKS:

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

1608 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-1909

Municipality Harwich Twp.
 Source Rondeau Bay, L. Erie
 Station 10 Depth

Date Analysed Feb. 24, 1986 Date Sampled Sept. 3, 1985
 Enumeration Procedure * 50 fields; 1r, ** 2r
 Mic Factor * 742.3440; 178.50 $5 \times 17 =$ Concentration Factor 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothece</i> *	386	Unid. Dinophyceae	14	<i>Chrysochromulina parva</i>	46
<i>Merismopedia</i>	4			Unid. Chrysomonad	58
<i>Gomphosphaeria</i>	3			<i>Uroglena</i>	22
<i>Oscillatoria</i>	21			<i>Bicoeca</i>	p
<i>Lyngbya</i>	57	TOTAL →	14		
<i>Microcystis</i>	7	CRYPTOPHYCEAE	μ^3		
<i>Aphanizomenon</i>	p	<i>Katablepharis</i>	2		
<i>Raphidiopsis</i>	p	<i>Rhodomonas</i>	4		
		<i>Cryptomonas</i> **	33		
		TOTAL →	39		
		EUGLENOPHYCEAE			
		<i>Euglena</i>	p		
		<i>Phacus</i>	p		
TOTAL →	478	TOTAL →	-	TOTAL →	126

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Pediastrum simplex</i>	28	<i>Stephanodiscus</i>	12	<i>Ciliate</i>	142.80
<i>Schroederia</i>	1	<i>Surirella</i> xv	40	Immature Copepoda	p
<i>Gloeocystis</i>	20	<i>Cyclotella</i>	12	<i>Diffugia</i>	p
<i>Coelastrum</i>	11	<i>Nitzschia</i> **	201	<i>Trichocerca</i>	p
<i>Oocystis</i>	21	<i>Synedra</i>	28	<i>Keratella</i>	p
<i>Chlamydomonas</i>	10	<i>Navicula</i>	14	<i>Polyarthra</i>	p
<i>Scenedesmus</i> **	48	<i>Coscinodiscus</i>	p	<i>Bosmina</i>	p
Unid. Green Zoospore	2	<i>Fragilaria crotonensis</i>	p	TOTAL →	142.80
<i>Quadrigula</i>	2	<i>Cymatopleura</i>	p		
<i>Monoraphidium</i>	2				
<i>Crucigenia tetrapedia</i>	p				
<i>Closterium</i>	4				
<i>Tetraedron</i>	2				
<i>Chodatella quadrifida</i>	2				
<i>Botryococcus</i>	p				
TOTAL →	153	TOTAL →	307		

REMARKS:

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML
 OR TOTAL CUBIC MICRONS PER ML

1117 $\times 10^3$

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-2154

Municipality Harwich twp. Rondeau Bay
 Source Lake Erie
 Station 7 Depth _____

Date Analysed Feb. 25, 1986 Date Sampled Sept. 23, 1985
 Enumeration Procedure 1/2 C; * 50 fields; 1 r
 Mic Factor 1/2 C; * 742.3440; 178.50 Concentration Factor 5

DIANOPHYCEAE	μ^3	DINOPHYCEAE	μ^3	CHRYSTOPHYCEAE	μ^3
<i>Aphanothoece</i>	* 660	<i>Unid. Dinophyceae</i>	19	<i>Chryschromulina parva</i>	71
<i>Oscillatoria</i>	491	<i>Diplopsalis</i>	p	<i>Unid. Chrysophyte</i>	1
<i>Microcystis</i>	12	<i>Ceratium hirundinella</i>	p	<i>Unid. Chrysomonad</i>	40
<i>Throococcus</i>	10			<i>Uroglena</i>	18
<i>Coelosphaerium</i>	1	TOTAL →	19	<i>Dinobryon sociale</i>	14
<i>Aphanizomenon</i>	61	CRYPTOPHYCEAE	μ^3	<i>Salpingoecce</i>	1
<i>Omphosphaeria</i>	13	<i>Rhodomonas</i>	14		
<i>Raphidiopsis</i>	292	<i>Katablepharis</i>	13		
<i>Merismopedia</i>	4	<i>Cryptomonas</i>	102		
<i>Lyngbya</i>	42	TOTAL →	129		
		EUGLENOPHYCEAE	μ^3		
		<i>Euglena</i>	54		
		<i>Phacus</i>	p		
TOTAL →	1586	TOTAL →	54	TOTAL →	145

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Staurastrum</i>	1	<i>Stephanodiscus sp.</i>	1/2 C 528	<i>Vorticella</i>	35.70
<i>Unid. Green Zoospore</i>	3	<i>Cyclotella</i>	106	<i>Ciliate</i>	178.50
<i>Chlamydomonas</i>	15	<i>Rhizosolenia</i>	16	<i>Polyarthra</i>	p
<i>Docystis</i>	86	<i>Synedra</i>	167	<i>Immature Copepoda</i>	p
<i>Dococystis</i>	76	<i>Nitzschia</i>	133		
<i>Coelastrum</i>	14	<i>Gyrosigma</i>	29		
<i>Mediastrium simplex</i>	25	<i>Stephanodiscus sp.</i>	12		
<i>P. duplex</i>	p	<i>Amphiprora ornata</i>	p	TOTAL →	214.20
<i>Cenedesmus</i>	43	<i>Coccinodiscus</i>	p		
<i>Monoraphidium</i>	8	<i>Surirella</i>	p		
<i>Tetraëdron</i>	5	<i>Melosira</i>	p		
<i>Rhodatella ciliata</i>	24	<i>Tabellaria fenestrata</i>	p		
<i>Geminella</i>	4	<i>Fragilaria crotonensis</i>	p		
<i>Ankistrodesmus</i>	50	<i>F. capucine</i>	p		
<i>Thraex</i>	6				
<i>Crucigenia sp.</i>	3				
<i>Closterium</i>	12				
<i>Microactinium</i>	8				
<i>Leptochlamys</i>					
TOTAL →	383	TOTAL →	991		

REMARKS:

SIGNED: C. Lee

TOTAL AREA STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

3307X10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-2155

Municipality Rondeau Bay Harwich tp.
Source Lake Erie
Station 10 Depth _____

Date Analysed Feb. 26, 1986 Date Sampled Sept. 23, 1985
Enumeration Procedure 1/2C; ** 50 fields; 1r, * 2r
Mic Factor 2.00; 742.3440; 178.50 Concentration Factor 5

CYANOPHYCEAE			DINOPHYCEAE			CHRYSTOPHYCEAE		
		μ^3			μ^3			μ^3
<i>Aphanothece</i>	**	456	<i>Unid. Dinophyceae</i>	*	115	<i>Unid. Chrysomonad</i>		51
<i>Oscillatoria</i>	*	278	<i>Ceratium hirundinella</i>		p	<i>Chrysochromulina parva</i>		40
<i>Raphidiopsis</i>	*	128				<i>Uroglena</i>		17
<i>Chroococcus</i>		2				<i>Mallomonas</i>		22
<i>Anabaena</i>	*	30	TOTAL →		115	<i>Salpingoecce</i>		1
<i>Lyngbya</i>		37	CRYPTOPHYCEAE		μ^3	<i>Dinobryon divergens</i>		4
<i>Gomphosphaeria</i>		8	<i>Cryptomonas</i>	*	94	<i>Unid. Chrysophyte</i>		2
<i>Merismopedia</i>		2	<i>Katablepharis</i>		1	<i>Chromulina</i>		3
<i>Microcystis</i>		16	<i>Rhodomonas</i>		1	<i>Dinobryon sociale</i>		p
<i>Coelosphaerium</i>		1	TOTAL →		96			
<i>Aphanizomenon</i>		11	EUGLENOPHYCEAE		μ^3			
			<i>Phacus</i>		44			
			<i>Euglena</i>		p			
TOTAL →		969	TOTAL →		44	TOTAL →		140

CHLOROPHYCEAE			BACILLARIOPHYCEAE			ZOOPLANKTON	
		μ^3			μ^3		No. Organisms per ML
<i>Monoraphidium</i>		9	<i>Stephanodiscus</i> sp.	1/2C	415	<i>Ciliate</i>	35.70
<i>Gloeocystis</i>		63	<i>Synedra</i>	*	103	<i>Keratella</i>	p
<i>Coelastrum</i>		7	<i>Nitzschia</i>		32	<i>Polyarthra</i>	p
<i>Crucigenia</i> sp. } <i>C. tetrapedia</i>		4	<i>Surirella</i>	*	87	<i>Unid. Cladocera</i>	p
<i>Unid. Green Zoospore</i>		4	<i>Cyclotella</i>		56	<i>Diiflugia</i>	p
<i>Scenedesmus</i>		59	<i>Fragilaria capucine</i>		7		
<i>Ankistrodesmus</i>		1	<i>F. crotonensis</i>		p		
<i>Docystis</i>		86	<i>Rhizosolenia</i>		3	TOTAL →	35.70
<i>Chlamydomonas</i>		11	<i>Asterionella formosa</i>		p		
<i>Chodatella ciliata</i>		5	<i>Tabellaria fenestrata</i>		p		
<i>Nephrocystium</i>		5	<i>Melosira</i>		p		
<i>Quadrigula</i>		3					
<i>Tetraëdron</i>		2					
<i>Closterium</i>		6					
<i>Francia</i>		14					
<i>Nephrochlamys</i>		p					
TOTAL →		279	TOTAL →		703		

REMARKS:

Chlorophyceae also present:-
Staurostrum
Pediastrum simplex
P. duplex
P. tetras
Pandorina
Mougeotia

SIGNED: C. Lea

OR TOTAL AREAL STANDARD UNITS PER ML
TOTAL CUBIC MICRONS PER ML

2346 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-2370

Municipality Rondeau Bay Harwich tpDate Analysed Feb. 27, 1986 Date Sampled Oct. 16, 1985Source Lake ErieEnumeration Procedure 1/2 C ; 1rStation 7 DepthMic Factor 1/2 C ; 178.50 Concentration Factor 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE	μ^2	CHRYSPHYCEAE	μ^3
<i>Coelosphaerium</i>	1	Unid. Dinophyceae	155	Unid. Chrysomonad	19
<i>Gomphosphaeria</i>	5	<i>Gymnodinium</i>	p	<i>Chrysochromulina parva</i>	33
<i>Aphanotheca</i>	55			<i>Uroglena</i>	1
<i>Merismopedia</i>	1			Unid. Chrysophyte	2
<i>Microcystis</i>	7	TOTAL →	155		
<i>Oscillatoria</i>	10	CRYPTOPHYCEAE	μ^3		
<i>Anabaena</i>	p	<i>Rhodomonas</i>	242		
		<i>Cryptomonas</i>	1113		
		<i>Katablepharis</i>	2		
		TOTAL →	1357		
		EUGLENOPHYCEAE			
		<i>Phacus</i>	p		
		<i>Euglena</i>	p		
TOTAL →	79	TOTAL →	-	TOTAL →	55

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Pediastrum tetras</i>	7	<i>Stephanodiscus</i> sp. 1/2 C	412	Ciliate	71.40
<i>Monoraphidium</i>	29	<i>Fragilaria capucinae</i> 1/2 C	60	<i>Diffugia</i>	p
<i>Chloocystis</i>	21	<i>F. crotonensis</i>		<i>Basmina</i>	p
<i>Scenedesmus</i>	148	<i>Nitzschia</i>	113	<i>Keratella</i>	p
<i>Pediastrum</i>	4	<i>Rhizosolenia</i>	3	<i>Polyarthra</i>	p
<i>Crucigenia tetrapedia</i>	1	<i>Stephanodiscus</i> sp.	43		
Unid. Green Zoospore	1	<i>Synedra</i>	51		
<i>Chlamydomonas</i>	4	<i>Cyclotella</i>	38	TOTAL →	71.40
<i>Podatella quadriseta</i>	2	<i>Surirella</i>	p		
<i>Uocystis</i>	89	<i>Cymatopleura</i>	p		
<i>Ankistrodesmus</i>	4	<i>Amphiproora ornata</i>	p		
<i>Tetraëdron</i>	5	<i>Tabellaria fenestrata</i>	p		
<i>Coelastrum</i>	31	<i>Asterionella formosa</i>	p		
<i>Eminella</i>	p				
<i>Cosmarium</i>	p				
<i>Pediastrum boryanum</i>	p				
<i>simplex</i> , <i>P. duplex</i>	p				
TOTAL →	346	TOTAL →	720		

REMARKS:

SIGNED: C. Lee

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2712 x 10³

PLANKTON ANALYSIS

FILE NUMBER

5-0

SAMPLE NUMBER

85-2371

Municipality Rondeau Bay Harwich twp.

Date Analysed Feb. 28, 1986 Date Sampled Oct. 16, 1985

Source Lake Erie

Enumeration Procedure 1/2 C; 1r, # 3r

Station 10 Depth

Mic Factor 1/2 C 2.00; 178.50 5x E17: Concentration Factor 5

CYANOPHYCEAE	μ^3	DINOPHYCEAE		CHRYSTOPHYCEAE	μ^3
<i>Aphanotheca</i>	83	<i>Unid. Dinophyceae</i>	p	<i>Chrysochromulina parva</i>	42
<i>Microcystis</i>	10			<i>Unid. Chrysoomonad</i>	25
<i>Anabaena</i>	* 117			<i>Unid. Chrysophyte</i>	1
<i>Oscillatoria</i>	* 75			<i>Dinobryon</i>	p
<i>Coelosphaerium</i>	1	TOTAL →	-		
<i>Lyngbya</i>	6	CRYPTOPHYCEAE	μ^3		
<i>Gomphosphaeria</i>	5	<i>Rhodomonas</i>	348		
<i>Merismopedia</i>	2	<i>Cryptomonas</i>	* 397		
<i>Aphanizomenon</i>	27	<i>Katablepharis</i>	1		
<i>Chroococcus</i>	8	TOTAL →	746		
<i>Raphidiopsis</i>	3	EUGLENOPHYCEAE			
TOTAL →	337	TOTAL →	-	TOTAL →	68

CHLOROPHYCEAE	μ^3	BACILLARIOPHYCEAE	μ^3	ZOOPLANKTON	No. Organisms per ML
<i>Monoraphidium</i>	17	<i>Stephanodiscus sp.</i>	1/2 C 716	<i>Keratella</i>	p
<i>Schroederia</i>	1	<i>Synedra</i>	44	<i>Ciliate</i>	p
<i>Chlamydomonas</i>	9	<i>Cyclotella</i>	29	<i>Difflugia</i>	p
<i>Coelastrum</i>	69	<i>Stephanodiscus</i>	58	<i>Polyarthra</i>	
<i>Gloeocystis</i>	32	<i>Nitzschia</i>	21		
<i>Ankistrodesmus</i>	1	<i>Stephanodiscus binderanus</i>	p		
<i>Scenedesmus</i>	72	<i>Fragilaria crotonensis</i>	p		
<i>Dedogonium</i>	15	<i>F. capucine</i>	p	TOTAL →	-
<i>Unid. Green Zoospore</i>	2	<i>Melosira</i>	p		
<i>Tetrastrum</i>	5	<i>Tabellaria fenestrata</i>	p		
<i>Chodatella quadriseta</i>	2	<i>Surirella</i>	p		
<i>Docystis</i>	161	<i>Asterionella formosa</i>	p		
<i>Tetraedron</i>	11				
<i>Staurastrum</i>	p				
<i>Closterium</i>	p				
<i>Quadrigula</i>	p				
TOTAL →	397	TOTAL →	868		

REMARKS:

Also present: *Pediastrum simplex*
P. duplex

SIGNED: C. Lea

TOTAL AREAL STANDARD UNITS PER ML

TOTAL CUBIC MICRONS PER ML

2416X10³

Water Quality Data

Rondeau Bay 1985

[illegible]

Stream..RONDEAU...RAY

Location.....

Description

[illegible]

Stream... RONDEAU... BAY

Location.....2a

Description

[illegible]

114

Description

- 115 -

[illegible]

Stream RONDEAU RAY

(ation.....3c

Description

[illegible]

[illegible]

Description _____

11

Stream, RONDEAU BAY

Station 46

Description

[illegible]

Stream RONDEAU Bay

Station

5

Description

[illegible]

Stream, RONDEAU RAY

station.....4

Description

[illegible]

Stream...RONDEAU

BAY

Station

6a

Description

[illegible]

$$\begin{array}{r} - \\ 124 \\ - \end{array}$$

- 125 -

126

- 127

1281

Description

[illegible]

$$\begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C} \\ | \\ \text{C} \end{array}$$



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